NBG-12LX

Addressable Manual Pull Station

NOTIFIER® by Honeywell

Intelligent/Addressable Devices

General

The Notifier NBG-12LX is a state-of-the-art, dual-action (i.e., requires two motions to activate the station) pull station that includes an addressable interface for any Notifier intelligent control panel except FireWarden series panels, and the NSP-25 panel. Because the NBG-12LX is addressable, the control panel can display the exact location of the activated manual station. This leads fire personnel quickly to the location of the alarm.

Features

- Maintenance personnel can open station for inspection and address setting without causing an alarm condition.
- Built-in bicolor LED, which is visible through the handle of the station, flashes in normal operation and latches steady red when in alarm.
- Handle latches in down position and the word "ACTIVATED" appears to clearly indicate the station has been operated.
- Captive screw terminals wire-ready for easy connection to SLC loop (accepts up to 12 AWG/3.25 mm² wire).
- Can be surface mounted (with SB-10 or SB-I/O) or semi-flush mounted. Semi-flush mount to a standard single-gang, double-gang, or 4" (10.16 cm) square electrical box.
- Smooth dual-action design.
- Meets ADAAG controls and operating mechanisms guidelines (Section 4.1.3[13]); meets ADA requirement for 5 lb. maximum activation force.
- Highly visible.
- Attractive shape and textured finish.
- Key reset.
- Includes Braille text on station handle.
- Optional trim ring (BG12TR).
- Meets UL 38, Standard for Manually Actuated Signaling Boxes.
- Up to 99 NBG-12LX stations per loop on CLIP protocol loops.
- Up to 159 NBG-12LX stations per loop on FlashScan® protocol loops.
- Dual-color LED blinks green to indicate normal on FlashScan® systems.

Construction

Shell, door, and handle are molded of durable polycarbonate material with a textured finish.

Specifications

- **Shipping Weight:** 9.6 oz. (272.15 g)
- **Normal operating voltage:** 24 VDC.
- **Maximum SLC loop voltage:** 28.0 VDC.
- **Maximum SLC loop current:** 375 µA.
- **Temperature Range:** 32°F to 120°F (0°C to 49°C)
- **Relative Humidity:** 10% to 93% (noncondensing)
- **For use indoors in a dry location**

The NBG-12LX
Addressable Manual Pull Station

Installation

The NBG-12LX will mount semi-flush into a single-gang, double-gang, or standard 4" (10.16 cm) square electrical outlet box, or will surface mount to the model SB-10 or SB-I/O surface backbox. If the NBG-12LX is being semi-flush mounted, then the optional trim ring (BG12TR) may be used. The BG12TR is usually needed for semi-flush mounting with 4" (10.16 cm) or double-gang boxes (not with single-gang boxes).

Operation

Pushing in, then pulling down on the handle causes it to latch in the down/activated position. Once latched, the word "ACTIVATED" (in bright yellow) appears at the top of the handle, while a portion of the handle protrudes from the bottom of the station. To reset the station, simply unlock the station with the key and pull the door open. This action resets the handle; closing the door automatically resets the switch.

Each manual station, on command from the control panel, sends data to the panel representing the state of the manual switch. Two rotary decimal switches allow address settings (1 – 159 on FlashScan® systems, 1 – 99 on CLIP systems).

Architectural/Engineering Specifications

Manual Fire Alarm Stations shall be non-coded, with a key-operated reset lock in order that they may be tested, and so designed that after actual Emergency Operation, they cannot be restored to normal except by use of a key. An operated station shall automatically condition itself so as to be visually detected as activated. Manual stations shall be constructed of red-colored polycarbonate material with clearly visible operating instructions provided on the cover. The word FIRE shall appear on the front of the stations in white letters, 1.00 inches (2.54 cm) or larger. Stations shall be suitable for surface mounting on matching backbox SB-10 or SB-I/O; or semi-flush mounting on a standard single-gang, double-gang, or 4"

(10.16 cm) square electrical box, and shall be installed within the limits defined by the Americans with Disabilities Act (ADA) or per national/local requirements. Manual Stations shall be Underwriters Laboratories listed.

Manual stations shall connect with two wires to one of the control panel SLC loops. The manual station shall, on command from the control panel, send data to the panel representing the state of the manual switch.. Manual stations shall provide address setting by use of rotary decimal switches.

The loop poll LED shall be clearly visible through the front of the station. The LED shall flash while in the normal condition, and stay steadily illuminated when in alarm.

Product Line Information

NBG-12LX: Dual-action addressable pull station. Includes key locking feature.

SB-10: Surface backbox; metal.

SB-I/O: Surface backbox; plastic.

BG12TR: Optional trim ring.

17021: Keys, set of two.

NY-Plate: New York City trim plate

Agency Listings and Approvals

In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL / CUL Listed:** S692 (listed for Canadian and non-Canadian applications)
- **MEA:** 67-02-E
- **CSFM:** 7150-0028:0199
- **FDNY:** COA #6038 (NFS2-640), COA #6058 (NFS2-3030)
- **BSMI:** CI313066760047
- **U.S. Coast Guard:** 161.002/23/3 (AFP-200); 161.002/27/3 (AM-2020/AFP-1010; 161.002/42/1 (NFS-640)
- **Lloyd's Register:** 02/6007 (NFS-640); 94/60004 (E2) (AFP-200); 03/60011 (E1); 07/60007 (NFS2-3030)
- **FM** Approved

Patented: U.S. Patent No. D428,351; 6,380,846; 6,314,772; 6,632,108.

ISO 9001 CERTIFIED
ENGINEERING & MANUFACTURING QUALITY SYSTEMS

This document is not intended to be used for installation purposes.
We try to keep our product information up-to-date and accurate.
We cannot cover all specific applications or anticipate all requirements.
All specifications are subject to change without notice.

Made in the U.S. A.

For more information, contact Notifier. Phone: (203) 484-7161, FAX: (203) 484-7118.
www.notifier.com

FAPT-851(A)

Acclimate® Plus™ Multi-Sensor
Low-Profile Intelligent Detector

NOTIFIER® by Honeywell

Intelligent/Addressable Devices

General

The Notifier FAPT-851(A) Acclimate® Plus™ detector is an intelligent, addressable, multi-sensing, low-profile detector designed for use with Notifier Notifier Onyx and CLIP series Fire Alarm Control Panels (FACPs).

The Acclimate Plus detector uses a combination of photoelectric and thermal sensing technologies to increase immunity to false alarms. Unlike traditional intelligent detectors, the Acclimate Plus detector has a microprocessor in the detector head that processes alarm data. As a result, the Acclimate Plus detector adjusts its sensitivity automatically, without operator intervention or control panel programming.

Areas where the Acclimate Plus detector is especially useful include office complexes, schools, college campuses, manufacturing and industrial facilities, and anywhere else the use of a particular area may change. The Acclimate Plus detector automatically adjusts its sensitivity to the environment.

FlashScan® (U.S. Patent 5,539,389) is a communication protocol developed to greatly enhance the speed of communication between analog intelligent devices and compatible systems. Intelligent devices communicate in a grouped fashion. If one of the devices within the group has new information, the panel's CPU stops the group poll and concentrates on single points. The net effect is response speed greater than five times that of earlier designs.

Features

- Automatically adjusts sensitivity levels without operator intervention or programming. Sensitivity increases with heat.
- Microprocessor-based, combination photo and thermal technology.
- Compatible with all Notifier Onyx and CLIP series Fire Alarm Control Panels (FACPs).
- Addressable-analog communication.
- Sleek, low-profile design.
- Two-wire SLC connection.
- Rotary, decimal addressing (1-99 on CLIP systems, 1-159 on FlashScan systems).
- Addresses can be viewed and changed without electronic programmers.
- Dual bi-color LED design provides 360° viewing angle.
- LEDs lock red when in alarm. In FlashScan, LEDs flash green in standby for normal condition.
- Built-in tamper-resistant feature.
- Constructed of off-white fire-resistant plastic, designed to commercial standards, and offers an attractive appearance.
- SEMS screws for wiring of the separate base.
- Several base options, including relay, isolator, and sounder.
- Built-in functional test switch activated by external magnet.
- Listed to UL 268.
- Capable of heat-only alarm mode, enabled by a special command from the panel. Smoke alarms are ignored.
- Low-temperature signal at 45°F +/– 10°F (7.22°C +/– 5.54°C).

FAPT-851 with B210.png

FAPT-851(A) in B210LP(A) Base

Specifications

Sensitivity: *auto-adjusting levels*: 1 to 2%/ft. and 2 to 4%/ft. with classic CLIP systems; 1 to 2, 2 to 3, and 3 to 4%/ft. with systems; *fixed-sensitivity levels:* 1, 2, and 4%/ft. with classic CLIP systems; 0.5, 1, 2, 3, and 4%/ft. with FlashScan systems.

Size: 2.0" (5.3 cm) high; base determines diameter.

- **B210LP(A):** 6.1" (15.5 cm) diameter.
- **B501(A):** 4.1" (10.4 cm) diameter.
- **B200S(A):** 6.875" (17.46 cm) diameter.
- **B200SR(A):** 6.875" (17.46 cm) diameter.
- **B224RB(A):** 6.2" (15.748 cm) diameter.

Shipping weight: 5.2 oz. (147 g).

Operating temperature: 0°C to 38°C (32°F to 100°F).

UL-Listed velocity range: 0 – 4000 ft./min. (1219.2 m/min.), suitable for installation in ducts.

Relative humidity: 10% – 93% noncondensing.

Thermal sensing rating: fixed-temperature setpoint 135°F (57°C).

ELECTRICAL SPECIFICATIONS

Voltage range: 15 – 32 volts DC peak.

Standby current (max. avg.): 300 µA.

Loop resistance: 50 ohms maximum; varies according to control panel used. Refer to panel installation manuals.

LED current (max.): 6.5 mA @ 24 VDC ("ON").

Installation

The FAPT-851(A) plug-in detector uses a separate base to simplify installation, service, and maintenance. A special tool allows maintenance personnel to plug-in and remove detectors without using a ladder. Suitable mounting base boxes include:

- 4.0" (10.16 cm) square box.
- 3.5" (8.89 cm) or 4.0" (10.16 cm) octagonal box.
- Single-gang box (except relay or isolator base).

NOTE: *The FAPT-851(A) detector has the unique ability to adjust sensitivity according to the environment, based on heat and smoke levels. Avoid installing these detectors in locations that are susceptible to rapid and high temperature changes. An example of an incorrect application would be near or in line with the output of a self-contained heater.*

Agency Listings and Approvals

These listings and approvals apply to the modules specified in this. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. *Consult factory for latest listing status.*

- **UL Listed:** S1115.
- **ULC Listed:** S1115.
- **MEA Listed:** 225-02-E.
- **FM Approved.**
- **CSFM:** 7272-0028:0206.
- **U.S. Coast Guard:** 161.002/42/1 (NFS-640); 161.002/50/0 (NFS2-640/NFS-320/NFS-320C, excluding B210LP(A)).
- **Lloyd's Register:** 11/600013 (NFS2-640, NFS-320/NFS-320C, excluding B210LP(A)).
- **Maryland State Fire Marshal:** Permit # 2122.

Ordering Information

NOTE: *"A" suffix indicates ULC Listed model.*

FAPT-851: Low-profile intelligent multi-sensor detector.

FAPT-851A: Same as FAPT-851 but with ULC Listing.

INTELLIGENT BASES

NOTE: *"A" suffix indicates ULC Listed model.*

NOTE: *For details about intelligent bases and their mounting, see DN-60054.*

B210LP(A): Plug-in detector base; standard U.S. flanged low-profile mounting base.

B210LPBP: Bulk pack of B210LP; package contains 10.

B501(A): Flangeless mounting base.

B501BP: Bulk pack of B501; package contains 10.

B200S(A): Intelligent, programmable sounder base capable of producing sound output in high or low volume with ANSI Temporal 3, ANSI Temporal 4, continuous tone, marching tone, and custom tone.

B200SR(A): Intelligent sounder base capable of producing sound output with ANSI Temporal 3 or continuous tone. Replaces B501BH series bases in retrofit applications.

B224RB(A): Relay base Screw terminals: up to 14 AWG (2.0 mm^2). Relay type Form-C. Rating: 2.0 A @ 30 VDC resistive; 0.3 A @ 110 VDC inductive; 1.0 A @ 30 VDC inductive.

B224BI(A): Isolator base. Maximum: 25 devices between isolator bases.

ACCESSORIES

F110: Retrofit flange to convert B210LP to match the B710LP profile, or to convert older high-profile bases to low-profile.

F110BP: Bulk pack of F110; package contains 15.

F210: Replacement flange for B210LP(A) base.

RA100Z(A): Remote LED annunciator. 3 – 32 VDC. Fits U.S. single-gang electrical box. Supported by B210LP(A) and B501(A) bases only.

SMB600: Surface mounting kit for use with B210LP(A).

M02-04-00: Test magnet.

M02-09-00: Test magnet with telescoping handle.

XR2B: Detector removal tool. Allows installation and/or removal of FlashScan® Series detector heads from base in high ceiling installations.

T55-127-010: Detector removal tool without pole.

XP-4: Extension pole for XR2B. Comes in three 5-foot (1.524 m) sections.

For more information, contact Notifier. Phone: (203) 484-7161, FAX: (203) 484-7118.
www.notifier.com

FST-851(A) Series

Intelligent Thermal (Heat) Detectors with FlashScan®

NOTIFIER® by Honeywell

Intelligent / Addressable Devices

General

Notifier FST-851(A) Series intelligent plug-in thermal detectors with integral communication has features that surpass conventional detectors. Point ID capability allows each detector's address to be set with rotary, decimal address switches, providing exact detector locations. FST-851(A) Series thermal detectors use an innovative thermistor sensing circuit to produce 135°F/57°C fixed-temperature (FST-851/A) and rate-of-rise thermal detection (FST-851R/A) in a low-profile package. FST-851H(A) provides fixed high-temperature detection at 190°F/88°C. These thermal detectors provide effective, intelligent property protection in a variety of applications. FST-851(A) Series detectors are compatible with Notifier Onyx and CLIP series Fire Alarm Control Panels (FACPs).

FlashScan® (U.S. Patent 5,539,389) is a communication protocol developed by Notifier Engineering that greatly enhances the speed of communication between analog intelligent devices and certain NOTIFIER systems. Intelligent devices communicate in a grouped fashion. If one of the devices within the group has new information, the panel's CPU stops the group poll and concentrates on single points. The net effect is response speed greater than five times that of earlier designs.

Features

- Sleek, low-profile, stylish design.
- State-of-the-art thermistor technology for fast response.
- Rate-of-rise model (FST-851R/A), 15°F (8.3°C) per minute.
- Factory preset fixed temperature at 135°F (57°C); high-temperature model fixed at 190°F (88°C).
- Addressable by device.
- Compatible with FlashScan® and CLIP protocol systems.
- Rotary, decimal addressing (1-99 on CLIP systems, 1-159 on FlashScan systems).
- Two-wire SLC connection.
- Visible LEDs "blink" every time the unit is addressed.
- 360°-field viewing angle of the visual alarm indicators (two bi-color LEDs). LEDs blink green in Normal condition and turn on steady red in Alarm.
- Integral communications and built-in device-type identification.
- Remote test feature from the panel.
- Built-in functional test switch activated by external magnet.
- Walk test with address display (an address of 121 will blink the detector LED 12-(pause)-1).
- Low standby current.
- Backward-compatible.
- Built-in tamper-resistant feature.
- Designed for direct-surface or electrical-box mounting.
- Sealed against back pressure.
- Plugs into separate base for ease of installation and maintenance. Separate base allows interchange of photoelectric, ionization and thermal sensors.
- SEMS screws for wiring of the separate base.
- Constructed of off-white fire-resistant plastic, designed to commercial standards, and offers an attractive appearance.

B210-2251.jpg

FST-851(A) in B210LP(A) Base

- 94-5V plastic flammability rating.
- Remote LED output connection to optional RA100Z(A) remote LED annunciator.
- Optional sounder, relay, and isolator bases.
- Optional flanced surface mounting kit.

Specifications

Size: 2.1" (5.3 cm) high; base determines diameter.

- **B210LP(A):** 6.1" (15.5 cm) diameter.
- **B501(A):** 4.1" (10.4 cm) diameter.
- **B200S(A):** 6.875" (17.46 cm) diameter.
- **B200SR(A):** 6.875" (17.46 cm) diameter.
- **B224RB(A):** 6.2" (15.748 cm) diameter.
- **B224BI(A):** 6.2" (15.748 cm) diameter.

Shipping weight: 4.8 oz. (137 g).

Operating temperature range: FST-851(A) Series, FST-851R(A): –20°C to 38°C (–4°F to 100°F); FST-851H(A): –20°C to 66°C (–4°F to 150°F).

Detector spacing: UL approved for 50 ft. (15.24 m) center to center. FM approved for 25 x 25 ft. (7.62 x 7.62 m) spacing.

Relative humidity: 10% – 93% noncondensing.

Thermal ratings: fixed-temperature setpoint 135°F (57°C), rate-of-rise detection 15°F (8.3°C) per minute, high temperature heat 190°F (88°C).

ELECTRICAL SPECIFICATIONS

Voltage range: 15 - 32 volts DC peak.

Standby current (max. avg.): 300 µA @ 24 VDC (one communication every 5 seconds with LED enabled).

LED current (max.): 6.5 mA @ 24 VDC ("ON").

Applications

Use thermal detectors for protection of property. For further information, go to systemsensor.com for manual I56-407-00, Applications Manual for System Smoke Detectors, which provides detailed information on detector spacing, placement, zoning, wiring, and special applications.

Installation

The FST Series plug-in intelligent thermal detectors use a separate base to simplify installation, service, and maintenance. Installation instructions are shipped with each detector. A special tool allows maintenance personnel to plug in and remove detectors without using a ladder

Mount base (all base types) on an electrical backbox which is at least 1.5" (3.81 cm) deep. For a chart of compatible junction boxes, see *DN-60054*.

***NOTE:** 1) Because of the inherent supervision provided by the SLC loop, end-of-line resistors are not required. Wiring "T-taps" or branches are permitted for Style 4 (Class "B") wiring. **2)** When using relay or sounder bases, consult the ISO-X(A) installation sheet I56-1380 for device limitations between isolator modules and isolator bases.*

Agency Listings and Approvals

These listings and approvals apply to the modules specified in this document.In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. *Consult factory for latest listing status.*

- **UL Listed:** S747.
- **ULC Listed:** S6978.
- **MEA Listed:** 383-02-E.
- **FM Approved.**
- **CSFM:** 7270-0028:0196.
- **BSMI:** CI313066760025.
- **CCCF:** Certif. # 2004081801000018.
- **U.S. Coast Guard:** 161.002/42/1 (NFS-640); 161.002/50/0 (NFS2-640/NFS-320/NFS-320C, excluding B210LP(A)).
- **Lloyd's Register:** 11/600013 (NFS2-640/NFS-320/NFS-320C, excluding B210LP(A)).

Product Line Information

***NOTE:** "A" suffix indicates ULC Listed model.*

FST-851: Intelligent thermal detector. Must be mounted to one of the bases listed below.

FST-851A: Same as FST-851 but with ULC Listing.

FST-851R: Intelligent thermal detector with rate-of-rise feature.

FST-851RA: Same as FST-851R but with ULC Listing.

FST-851H: Intelligent high-temperature thermal detector.

FST-851HA: Same as FST-851H but with ULC Listing.

INTELLIGENT BASES

***NOTE:** "A" suffix indicates ULC Listed model.*

***NOTE:** For details about intelligent bases and their mounting, see DN-60054.*

B210LP(A): Standard U.S. flanged low-profile mounting base.

B210LPBP: Bulk pack of B210LP; package contains 10.

B501(A): Standard European flangeless mounting base.

B501BP: Bulk pack of B501; package contains 10.

B200S(A): Addressable Intelligent, programmable sounder base capable of producing sound output in high or low volume with ANSI Temporal 3, ANSI Temporal 4, continuous tone, marching tone, and custom tone.

B200SR(A): Intelligent sounder base capable of producing sound output with ANSI Temporal 3 or continuous tone. Replaces B501BH series bases in retrofit applications.

B224RB(A): Intelligent relay base. Screw terminals: up to 14 AWG (2.0 mm²). Relay type: Form-C. Rating: 2.0 A @ 30 VDC resistive; 0.3 A @ 110 VDC inductive; 1.0 A @ 30 VDC inductive.

B224BI(A): Intelligent isolator base. Isolates SLC from loop shorts. Maximum: 25 devices between isolator bases; see Note 2 under Installation.

ACCESSORIES

F110: Retrofit flange to convert B210LP(A) to match the B710LP(A) profile, or to convert older high-profile bases to low-profile.

F110BP: Bulk pack of F110; package contains 15.

F210: Replacement flange for B210LP(A) base.

RA100Z(A): Remote LED annunciator. 3 – 32 VDC. Fits U.S. single-gang electrical box. Supported by B210LP(A) and B501(A) bases only.

SMB600: Surface mounting kit, flanged.

M02-04-00: Test magnet.

M02-09-00: Test magnet with telescoping handle.

XR2B: Detector removal tool. Allows installation and/or removal of FlashScan® Series detector heads from base in high ceiling installations. Includes T55-127-010.

T55-127-010: Detector removal tool without pole.

XP-4: Extension pole for XR2B. Comes in three 5-foot (1.524 m) sections.

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www.notifier.com

FCM-1(A) & FRM-1(A) Series

Control and Relay Modules

NOTIFIER® by Honeywell

Intelligent / Addressable Devices

General

FCM-1(A) Control Module: The FCM-1(A) Addressable Control Module provides Notifier intelligent fire alarm control panels a circuit for Notification Appliances (horns, strobes, speakers, etc.). Addressability allows the FCM-1(A) to be activated, either manually or through panel programming, on a select (zone or area of coverage) basis.

FRM-1(A) Relay Module: The FRM-1(A) Addressable Relay Module provides the system with a dry-contact output for activating a variety of auxiliary devices, such as fans, dampers, control equipment, etc. Addressability allows the dry contact to be activated, either manually or through panel programming, on a select basis.

FlashScan® (U.S. Patent 5,539,389) is a communication protocol developed by NOTIFIER Engineering that greatly enhances the speed of communication between analog intelligent devices. Intelligent devices communicate in a grouped fashion. If one of the devices within the group has new information, the panel CPU stops the group poll and concentrates on single points. The net effect is response speed greater than five times that of other designs.

FCM-1(A)

Features

- Built-in type identification automatically identifies these devices to the control panel.
- Internal circuitry and relay powered directly by two-wire SLC loop. The FCM-1(A) module requires power (for horns, strobes, etc.), or audio (for speakers).
- Integral LED "blinks" green each time a communication is received from the control panel and turns on in steady red when activated.
- LED blink may be deselected globally (affects all devices).
- High noise immunity (EMF/RFI).
- The FCM-1(A) may be used to switch 24-volt NAC power, audio (up to 70.7 Vrms).
- Wide viewing angle of LED.
- SEMS screws with clamping plates for wiring ease.
- Direct-dial entry of address 01– 159 for FlashScan loops, 01 – 99 for CLIP mode loops.
- Speaker, and audible/visual applications may be wired for Class B or A (Style Y or Z).

Applications

The FCM-1(A) is used to switch 24 VDC audible/visual power, high-level audio (speakers). The FRM-1(A) may be programmed to operate dry contacts for applications such as door holders or Air Handling Unit shutdown, and to reset four-wire smoke detector power.

NOTE: *Refer to the SLC Manual (PN 51253) for details regarding releasing applications with the FCM-1(A). Refer to the FCM-1-REL datasheet (DN-60390) for new FlashScan® releasing applications.*

Construction

- The face plate is made of off-white heat-resistant plastic.
- Controls include two rotary switches for direct-dial entry of address (01-159).
- The FCM-1(A) is configured for a single Class B (Style Y) or Class A (Style Z) Notification Appliance Circuit.
- The FRM-1(A) provides two Form-C dry contacts that switch together.

Operation

Each FCM-1(A) or FRM-1(A) uses one of 159 possible module addresses on a SLC loop (99 on CLIP loops). It responds to regular polls from the control panel and reports its type and status, including the open/normal/short status of its Notification Appliance Circuit (NAC). The LED blinks with each poll received. On command, it activates its internal relay. The FCM-1(A) supervises Class B (Style Y) or Class A (Style Z) notification or control circuits.

Upon code command from the panel, the FCM-1(A) will disconnect the supervision and connect the external power supply in the proper polarity across the load device. The disconnection of the supervision provides a positive indication to the panel that the control relay actually turned ON. The external power supply is always relay isolated from the communication loop so that a trouble condition on the external power supply will never interfere with the rest of the system.

Rotary switches set a unique address for each module. The address may be set before or after mounting. The built-in TYPE CODE (not settable) will identify the module to the control panel, so as to differentiate between a module and a sensor address.

Specifications for FCM-1(A)

Normal operating voltage: 15 to 32 VDC.

Maximum current draw: 6.5 mA (LED on).

Average operating current: 350 µA direct poll, 375 µA group poll with LED flashing, 485 µA Max. (LED flashing, NAC shorted.)

Maximum NAC Line Loss: 4 VDC.

External supply voltage (between Terminals T10 and T11): Maximum (NAC): Regulated 24 VDC; Maximum (Speakers): 70.7 V RMS, 50W.

Drain on external supply: 1.7 mA maximum using 24 VDC supply; 2.2 mA Maximum using 80 VRMS supply.

Max NAC Current Ratings: For class B wiring system, the current rating is 3A; For class A wiring system, the current rating is 2A.

Temperature range: 32°F to 120°F (0°C to 49°C).

Humidity range: 10% to 93% non-condensing.

Dimensions: 4.5" (114.3 mm) high x 4" (101.6 mm) wide x 1.25" (31.75 mm) deep. Mounts to a 4" (101.6 mm) square x 2.125" (53.975 mm) deep box.

Accessories: SMB500 Electrical Box; CB500 Barrier

Specifications for FRM-1(A)

Normal operating voltage: 15 to 32 VDC.

Maximum current draw: 6.5 mA (LED on).

Average operating current: 230 µA direct poll; 255 µA group poll.

EOL resistance: not used.

Temperature range: 32°F to 120°F (0°C to 49°C).

Humidity range: 10% to 93% non-condensing.

Dimensions: 4.5" (114.3 mm) high x 4" (101.6 mm) wide x 1.25" (31.75 mm) deep. Mounts to a 4" (101.6 mm) square x 2.125" (53.975 mm) deep box.

Accessories: SMB500 Electrical Box; CB500 Barrier

Agency Listings and Approvals

In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL:** S635
- **ULC:** S3705 (A version only)
- **FM Approved**
- **CSFM:** 7300-0028:0219
- **MEA:** 14-00-E
- **FDNY:** COA #6067, #6065

Contact Ratings for FRM-1(A)

Current Rating	Maximum Voltage	Load Description	Application
3 A	30 VDC	Resistive	Non-Coded
2 A	30 VDC	Resistive	Coded
.9 A	110 VDC	Resistive	Non-Coded
.9 A	125 VDC	Resistive	Non-Coded
.5 A	30 VDC	Inductive (L/R=5ms)	Coded
1 A	30 VDC	Inductive (L/R=2ms)	Coded
.3 A	125 VAC	Inductive (PF=0.35)	Non-Coded
1.5 A	25 VAC	Inductive (PF=0.35)	Non-Coded
.7 A	70.7 VAC	Inductive (PF=0.35)	Non-Coded
2 A	25 VAC	Inductive (PF=0.35)	Non-Coded

***NOTE:** Maximum (Speakers): 70.7 V RMS, 50 W*

Product Line Information

***NOTE:** "A" suffix indicates ULC Listed model.*

FCM-1(A): Intelligent Addressable Control Module.

FRM-1(A): Intelligent Addressable Relay Module.

A2143-20: Capacitor, required for Class A (Style Z) operation of speakers.

SMB500: Optional Surface-Mount Backbox.

CB500: Control Module Barrier — required by UL for separating power-limited and non-power limited wiring in the same junction box as FCM-1(A).

***NOTE:** For installation instructions, see the following documents:*

- *FCM-1(A) Installation document I56-1169.*
- *FRM-1(A) Installation document I56-3502.*
- *Notifier SLC Wiring Manual, document 51253.*

ISO 9001 CERTIFIED ENGINEERING & MANUFACTURING QUALITY SYSTEMS

This document is not intended to be used for installation purposes.
We try to keep our product information up-to-date and accurate.
We cannot cover all specific applications or anticipate all requirements.
All specifications are subject to change without notice.

Made in the U.S.A.

For more information, contact Notifier. Phone: (203) 484-7161, FAX: (203) 484-7118.
www.notifier.com

SpectrAlert® Advance

Selectable Output Notification Appliances

NOTIFIER® by Honeywell

Audio/Visual Devices

General

SpectrAlert® Advance selectable-output horns, strobes and horn/strobes are rich with features guaranteed to cut installation times and maximize profits. The SpectrAlert Advance series of notification appliances is designed to simplify your installations, with features such as: plug-in designs, instant feedback messages to ensure correct installation of individual devices, and eleven field-selectable candela settings for wall and ceiling strobes and horn/strobes.

More specifically, when installing Advance products, first attach a universal mounting plate to a four-inch square, four-inch octagon, or double-gang junction box. The two-wire mounting plate attaches to a single-gang junction box.

Then, connect the notification appliance circuit wiring to the SEMS terminals on the mounting plate.

Finally, attach the horn, strobe, or horn/strobe to the mounting plate by inserting the product's tabs in the mounting plate's grooves. The device will rotate into position, locking the product's pins into the mounting plate's terminals. The device will temporarily hold in place with a catch until it is secured with a captured mounting screw.

SpectrAlert Advance products allow you to choose:

- 12 or 24 volts.
- 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, or 185 candela by way of a rear-mounted slide switch and front viewing window.
- Horn tones and volume by way of a rotary switch.

The SpectrAlert Advance series includes outdoor notification appliances. Outdoor strobes and horn/strobes (two-wire and four-wire) are available for wall or ceiling. Outdoor horns are available for wall only. All System Sensor outdoor products are rated between –40°C and 66°C in wet or dry applications.

Models available:

- Indoor wall-mount: horn, strobe, 2-wire horn/strobe, 4-wire horn/strobe.
- Indoor ceiling-mount: strobe, 2-wire horn/strobe, 4-wire horn/strobe.
- Outdoor wall-mount: horn, strobe, 2-wire horn/strobe, 4-wire horn/strobe.
- Outdoor ceiling-mount: strobe, 2-wire horn/strobe, 4-wire horn/strobe.

Features

- Plug-in design.
- Same mounting plate for wall- and ceiling-mount units.
- Shorting spring on mounting plate for continuity check before installation.
- Captive mounting screw.
- Tamper-resistance capability.
- Field-selectable candela settings on wall and ceiling units: 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, 185.
- Automatic selection of 12 or 24 volt operation at 15 and 15/75 candela.
- Outdoor wall and ceiling products.
- Outdoor products rated from –40°C and 66°C.

Indoor Ceiling Horn/Strobe

Outdoor Ceiling Strobe

Indoor Wall Horn/Strobe

Indoor Ceiling Strobe

Indoor Wall Horn

Outdoor Wall Strobe

- Outdoor products rainproof per UL50 (NEMA 3R) and weatherproof per NEMA 4X, IP56
- Minimal intrusion into the backbox.
- Horn rated at 88+ dbA at 16 volts.
- Rotary switch for tone selection.
- Three horn volume settings.
- Electrically compatible with existing SpectrAlert products.

Engineering Specifications

SpectrAlert Advance horns, strobes, and horn/strobes mount to a standard 10.16 x 10.16 x 3.81 cm backbox, 10.16 cm octagonal backbox, or a double-gang backbox. Two-wire products mount to a single-gang 5.08 x 10.16 x 4.763 cm backbox. A universal mounting plate shall be used for mounting ceiling and wall products. The notification appliance circuit wiring shall terminate at the universal mounting plate. Also, SpectrAlert Advance products, when used with the Sync•Circuit™ Module accessory, shall be powered from a non-coded notification appliance circuit output and shall operate on a nominal 12 or 24 volts. When used with the Sync•Circuit Module, 12-volt rated notification appliance circuit outputs shall operate between 9 and 17.5 volts; 24-volt rated notification appliance circuit outputs shall operate between 17 and 33 volts. Indoor SpectrAlert Advance products shall operate between 0°C and 49°C from a regulated DC, or full-wave-rectified, unfiltered power supply. Strobes and horn/strobes shall have field-selectable candela settings including 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, 185.

STROBE

The strobe shall be a System Sensor SpectrAlert Advance Model _____ listed to CAN/ULC S5512 and shall be approved for fire protective service. The strobe shall be wired

as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system.

HORN/STROBE COMBINATION

The horn/strobe shall be a System Sensor SpectrAlert Advance Model _____ listed to CAN/ULC S5512 and shall be approved for fire protective service. The horn/strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system. The horn shall have three audibility options and an option to switch between a Temporal 3 pattern and a Non-Temporal (continuous) pattern. These options are set by a multiple position switch. On four-wire products, the strobe shall be powered independently of the sounder. The horn on horn/strobe models shall operate on a coded or non-coded power supply.

OUTDOOR PRODUCTS

SpectrAlert Advance outdoor horns, strobes and horn/strobes shall be listed for outdoor use by ULC and shall operate between –40°C and 66°C. The products shall be listed for use with a System Sensor outdoor/weatherproof backbox with half-inch and three-fourths-inch conduit entries.

SYNCHRONIZATION MODULE

The module shall be a System Sensor Sync•Circuit MDL3RA or MDL3WA listed to ULC and shall be approved for fire protective service. The module shall synchronize SpectrAlert strobes at 1 Hz and horns at Temporal 3. Also, while operating the strobes, the module shall silence the horns on horn/strobe models over a single pair of wires. The module shall mount to a 11.906 x 11.906 x 5.398 cm backbox. The module shall also control two Style Y (class B) circuits or one Style Z (Class A) circuit. The module shall synchronize multiple zones. Daisy-chaining two or more synchronization modules together will synchronize all the zones they control. The module shall not operate on a coded power supply.

Operating Specifications

- **Standard operating temperature:** 0°C to 49°C.
- **K Series operating temperature:** –40°C to 66°C.
- **Humidity range:** 10% to 93% non-condensing (indoor products).
- **Strobe flash rate:** 1 flash per second.
- **Nominal voltage:** regulated 12 VDC/FWR or regulated 24 VDC/FWR. ***NOTE:*** *Full Wave Rectified (FWR) voltage is a non-regulated, time-varying power source that is used on some power supply and panel outputs.*
- **Operating voltage range:** 8 V to 17.5 V (12 V nominal); or 16 V to 33 V (24 V nominal). ***NOTE:*** *P, S, PC, and SC products will operate at 12 V nominal only for 15 cd and 15/75 cd.*
- **Input terminal wire gauge:** 12 to 18 AWG (3.31 to 0.821 mm²).
- **Ceiling-mount dimensions (including lens):** 17.3 cm diameter x 6.4 cm deep.
- **Wall-mount dimensions (including lens):** 14.2 cm H x 11.9 cm W x 6.4 cm D.
- **Horn dimensions:** 14.2 cm H x 11.9 cm W x 3.3 cm D.

Agency Listings and Approvals

The listings and approvals below apply to SpectrAlert Advance Selectable Output Notification Devices. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listed:** S4011
- **ULC Listed:** S5512
- **FM Approved**
- **MEA:** 452-05-E
- **CSFM:** 7125-1653:0186 (indoor strobes); 7125-1653:0188 (horn strobes, chime strobes); 7135-1653:0189 (horns, chimes)

Strobe Current Draw, ULC Maximum (mA RMS)

Candela		8 – 17.5 V		16 – 33 V	
		DC	FWR	DC	FWR
Standard Candela Range	15	123	128	66	71
	15/75	142	148	77	81
	30	NA	N/A	94	96
	75	NA	NA	158	153
	95	NA	NA	181	176
	110	NA	NA	202	195
	115	NA	NA	210	205
High Candela Range	135	NA	NA	228	207
	150	NA	NA	246	220
	177	NA	NA	281	251
	185	NA	NA	286	258

Horn Current Draw, ULC Maximum (mA RMS)

Sound Pattern	dB	8 – 17.5 V		16 – 33 V	
		DC	FWR	DC	FWR
Temporal	High	57	55	69	75
Temporal	Medium	44	49	58	69
Temporal	Low	38	44	44	48
Non-temporal	High	57	56	69	75
Non-temporal	Medium	42	50	60	69
Non-temporal	Low	41	44	50	50
Coded	High	57	55	69	75
Coded	Medium	44	51	56	69
Coded	Low	40	46	52	50

Horn and Horn/Strobe Rotary Switch Setting

Setting	Repetition Rate	dB Level
1	Temporal horn	High
2	Temporal horn	Medium
3	Temporal horn	Low
4	Normal horn	High
5	Normal horn	Medium
6	Normal horn	Low
7*	Externally coded	High
8*	Externally coded	Medium
9*	Externally coded	Low

**NOTE:* *Settings 7, 8, and 9 are not available on 2-wire horn/strobe.*

Horn and Horn/Strobe Output (dBA)

Switch Position	Sound Pattern	dB	8 – 17.5 V		16 – 33 V	
			DC	FWR	DC	FWR
1	Temporal	High	96	93	101	99
2	Temporal	Medium	89	89	95	95
3	Temporal	Low	86	87	91	92
4	Non-temporal	High	90	86	96	93
5	Non-temporal	Medium	82	82	90	89
6	Non-temporal	Low	79	80	86	86
7*	Coded	High	90	87	96	93
8*	Coded	Medium	82	82	90	89
9*	Coded	Low	78	80	86	86

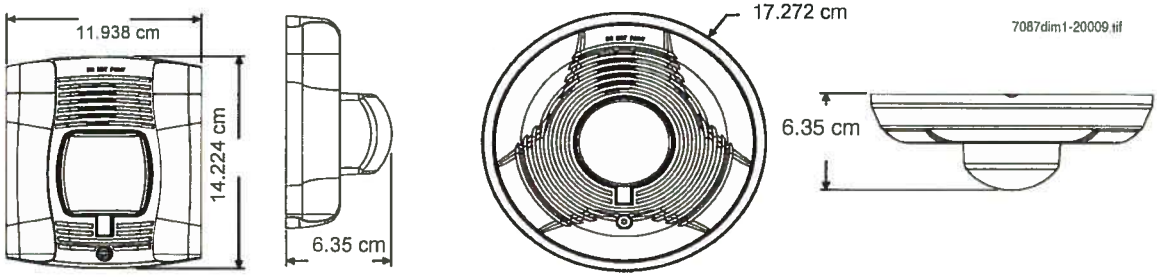
**NOTE:* *Settings 7, 8, and 9 are not available on 2-wire horn/strobe.*

Two-Wire Horn/Strobe, *STANDARD* Candela Range (15 – 115 cd), ULC Maximum Current Draw (mA RMS)

Input, Sound Pattern, dB Level	8 – 17.5 V		16 – 33 V						
	15	15/75	15	15/75	30	75	95	110	115
Input, Temporal, High	137	147	79	90	107	176	194	212	218
Input, Temporal, Medium	132	144	69	80	97	157	182	201	210
Input, Temporal, Low	132	143	66	77	93	154	179	198	207
Input, Non-temporal, High	141	152	91	100	116	176	201	221	229
Input, Non-temporal, Medium	133	145	75	85	102	163	187	207	216
Input, Non-temporal, Low	131	144	68	79	96	156	182	201	210
Input, Temporal, High	136	155	88	97	112	168	190	210	218
Input, Temporal, Medium	129	152	78	88	103	160	184	202	206
Input, Temporal, Low	129	151	76	86	101	160	184	194	201
Input, Non-temporal, High	142	161	103	112	126	181	203	221	229
Input, Non-temporal, Medium	134	155	85	95	110	166	189	208	216
Input, Non-temporal, Low	132	154	80	90	105	161	184	202	211

Two-Wire Horn/Strobe, *HIGH* Candela Range (135 – 185 cd), ULC Maximum Current Draw (mA RMS)

Input	16 – 33 V				Input	16 – 33 V			
	135	150	177	185		135	150	177	185
Temporal, High	245	259	290	297	Temporal, High	215	231	258	265
Temporal, Medium	235	253	288	297	Temporal, Medium	209	224	250	258
Temporal, Low	232	251	282	292	Temporal, Low	207	221	248	256
Non-temporal, High	255	270	303	309	Non-temporal, High	233	248	275	281
Non-temporal, Medium	242	259	293	299	Non-temporal, Medium	219	232	262	267
Non-temporal, Low	238	254	291	295	Non-temporal, Low	214	229	256	262



Ordering Information

Model	Description	Model	Description
WALL HORN/STROBES		*CEILING HORN/STROBES*	
P2RA	2-wire horn/strobe, standard cd, red.	PC2RKA	2-wire horn/strobe, standard cd, red, outdoor.
P2RHA	2-wire horn/strobe, high cd, red.	PC2RHKA	2-wire horn/strobe, high cd, red, outdoor.
P2RKA	2-wire horn/strobe, standard cd, red, outdoor	PC2WA	2-wire horn/strobe, standard cd, white.
P2RHKA	2-wire horn/strobe, high cd, red, outdoor.	PC2WHA	2-wire horn/strobe, high cd, white.
P2WA	2-wire horn/strobe, standard cd, white.	PC4RKA	4-wire horn/strobe, standard cd, red, outdoor.
P2WHA	2-wire horn/strobe, high cd, white.	PC4RHKA	4-wire horn/strobe, high cd, red, outdoor.
P4RA	4-wire horn/strobe, standard cd, red.	PC4WA	4-wire horn/strobe, standard cd, white.
P4RHA	4-wire horn/strobe, high cd, red.	PC4WHA	4-wire horn/strobe, high cd, white.
P4RKA	4-wire horn/strobe, standard cd, red, outdoor.	*HORNS*	
P4RHKA	4-wire horn/strobe, high cd, red, outdoor.	HRA	Horn, red.
P4WA	4-wire horn/strobe, standard cd, white.	HRKA	Horn, red, outdoor.
P4WHA	4-wire horn/strobe, high cd, white.	HWA	Horn, white.
ACCESSORIES		*WALL STROBES*	
BBS-2A	Backbox skirt, wall, red.	SRA	Strobe, standard cd, red.
BBSW-2A	Backbox skirt, wall, white.	SRHA	Strobe, high cd, red.
BBSC-2A	Backbox skirt, ceiling, red.	SRKA	Strobe, standard cd, red, outdoor.
BBSCW-2A	Backbox skirt, ceiling, white.	SRHKA	Strobe, high cd, red, outdoor.
WTPA	Flush mount, weatherproof plate, red	SWA	Strobe, standard cd, white.
WTPWA	Flush mount, weatherproof plate, white	SWHA	Strobe, high cd, white.
TR-HSA	Trim Ring, Red, package of 5	*CEILING STROBES*	
TRW-HSA	Trim Ring, White, package of 5	SCRKA	Strobe, standard cd, red, outdoor.
TRC-HSA	Trim Ring Ceiling, Red, package of 5	SCRHKA	Strobe, high cd, red, outdoor.
TRCW-HSA	Trim Ring Ceiling, White, package of 5	SCWA	Strobe, standard cd, white.
		SCWHA	Strobe, high cd, white.

NOTE: *For strobes and horn/strobes, add suffix "-F" for French or "-B" for Bilingual.*

NOTE: **"High cd" refers to strobes that include 135, 150, 177, and 185 candela settings. "Standard cd" refers to strobes that include 15, 15/75, 30, 75, 95, 110, and 115 candela settings.*

NOTE: *All outdoor models ("K(A)" suffix) include a plastic weatherproof backbox.*

NOTE: *Add "-R" to models for weatherproof replacement device (no back box included). Only for use with weatherproof outdoor flush mounting plate, WTPA and WTPWA.*

NOTE: *Add "P" to model for plain housing (No "FIRE" marking on the cover.)*

For more information, contact Notifier.
(888) 289-1114
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Woodbridge, Ontario L4L 7Z4
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Audible Visible Accessories

System Sensor offers a wide range of Audible Visible (AV) accessories to enable you to meet a variety of application requirements.

Features

MP120K Mounting Plate

- Designed for both indoor and outdoor use
- Plug-in design eliminates ground faults
- Power supply that converts 120 VAC to nominal 24 V FWR
- Compatible with all two-wire SpectrAlert Advance® devices

Color Lens Attachments

- Easily turns any device into a strobe for ECS, severe weather, sprinkler activation and more
- Outdoor rated from –35°F to 151°F
- Wall- or ceiling-mount lenses available
- UL 1638 listed

WTP Weatherproof Plates

- Enables flush mounting of outdoor devices to brick, ceramic tile, concrete, and masonry brick
- Weatherproof per NEMA 3R
- For use in both indoor and outdoor applications
- For use with all K series (outdoor) products replacement -R models
- Universal mounting plate easily attaches to the weatherproof plate

Agency Listings

LISTED S4011 S3593 — 7300-1653 195 7300-1653 204 7300-1653 0222 — MEA approved 582-06-E

The **MP120K Mounting Plate** is designed to use 120 VAC to power SpectrAlert Advance horns, strobes, horn strobes, chimes, and chime strobes.

Color Lens Attachments install easily on any indoor or outdoor SpectrAlert Advance strobe devices to provide distinctive visual signaling.

WTP Series Weatherproof Plates enable installers to flush mount outdoor horns, strobes, horn strobes, speakers, and speaker strobes to a variety of wall surfaces, including brick, ceramic tile, concrete, and masonry brick. These NEMA 3R-rated plates come in red and white to suit aesthetic and functional requirements. They may be used indoors or outdoors (with outdoor devices), as required by conditions. They easily attach to the SpectrAlert Advance universal mounting plate.

Trim Rings for speakers and speaker strobes allow for additional space within the backbox. Trim rings for horns, strobes, and horn strobes allow 4-wire devices to mount to a single-gang back box.

SpectrAlert Advance Outdoor Back Boxes ensure a NEMA 4X watertight listing for AV devices. In locations where you have a hard surface to mount to, **Surface Mount Back boxes** are the best solution. If you have an exposed junction box, the **Back Box Skirts** offer an attractive solution to mask the junction box exposure. **Retrofit Plates** cover paint outlines on the wall when replacing legacy SpectrAlert Advance products.

SpectrAlert Advance DECALS are for use on our non-pad printed wall- and ceiling-mount devices. Each decal comes with AGENT, EVAC, ALERT, or FIRE label options. The **Sync•Circuit Module** synchronizes SpectrAlert Advance strobes at 1 Hz and horns and chimes at temporal 3 over a single pair of wires. Patented module technology also allows the silencing of horns or chimes on horn strobe and chime strobe models over a pair of wires. See Datasheet *A05-1007-005* for more information.

Specifications

MP120K

120 VAC mounting plate model MP120K shall be listed to UL 464 for fire protective signaling systems. The mounting plate shall power a two-wire SpectrAlert® Advance horn, strobe, horn strobe, chime or chime strobe from a 120 VAC supply converted to nominal 24 V FWR. For indoor applications, the mounting plate shall be installed in a 4x4x2 1/8 -inch junction box. For outdoor applications, the mounting plate shall be installed using the proper SpectrAlert Advance outdoor weatherproof back box and outdoor listed notification appliance.

Compatibility

MP120K may be used with any of the following products at all horn and strobe settings: P2R, P2RH, P2RK, P2RHK, P2W, P2WH, SR, SRH, SRK, SRHK, SW, SWH, PC2R, PC2RH, PC2RK, PC2RHK, PC2W, PC2WH, SCR, SCRH, SCRK, SCRHK, SCW, SCWH, HR, HRK, HW, SR-P, SW-P, SRH-P, SWH-P, P2R-P, P2W-P, P2RH-P, P2WH-P, SCR-P, SCW-P, SCRH-P, SCWH-P, PC2R-P, PC2W-P, PC2RH-P, PC2WH-P, SR-SP, SRH-SP, P2R-SP, P2RH-SP, SCW-SP, SCWH-SP, PC2W-SP, PC2WH-SP, CHR, CHW, CHSR, CHSW.

Physical/Operating Specifications

Standard Operating Temperature	–40°F to 151°F (–40°C to 66°C)
Humidity Range	10 to 93% non-condensing (indoor products)
Nominal Voltage	Regulated 120 VAC
Operating Voltage Range	96–132 VAC
Current Draw From AC Line	150 mA max.

WTP Weatherproof Plates

The SpectrAlert Advance weatherproof plate for horns, strobes, and horn strobes shall mount to 4x4x1 1/4-inch and 2x4x1 1/2-inch back boxes. The weatherproof plate for speakers and speaker strobes shall mount to 4x4x2 1/8-inch back boxes. The weatherproof plate may be installed on brick, concrete, ceramic tile, and masonry brick and must be used with System Sensor "K" series outdoor replacement models (-R). Outdoor SpectrAlert Advance products shall operate between -40°F and 151°F.

Physical Specifications

Speaker Strobe	7.25" L x 6.26" W x 3.00" D (including speaker and lens)
Speaker	7.25" L x 6.26" W x 1.30" D (including speaker)
Horn Strobe	6.90" L x 5.90" W x 2.80" D (including strobe lens)
Horn	6.90" L x 5.90" W x 1.60" D (including horn)

Note: WTP and WTPW are compatible with 4x4x11/4-inch and 2x4x11/2-inch back boxes. (Compatible with outdoor horns, horn strobes and strobes)
WTP-SP and WTP-SPW are compatible with 4x4x21/8-inch back boxes. (Compatible with outdoor speakers and speaker strobes)

Models Available for Use with the Watertight Plates:

WTP/WTPW	HRK-R
WTP/WTPW	SRK-R, SRHK-R, SWK-R, SWHK-R
WTP/WTPW	P2RK-R, P2RHK-R, P4RK-R, P2WK-R, P2WHK-R
WTP-SP	SPRK-R, SPWK-R
WTP-SPW	SPSRK-R

Note: -R models ship without the outdoor back box. The weatherproof mounting plates are designed to be used only with -R replacement models.

Specifications

Color Lens Attachments

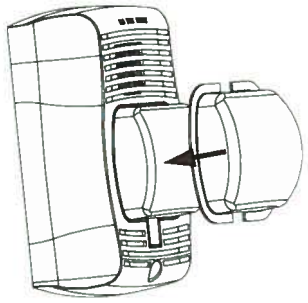
The System Sensor SpectrAlert Advance color lens attachments shall be approved for fire protective service as listed in UL 1638. The lens attachments shall only be used with non-FIRE-printed System Sensor strobe devices. The lens shall mount to any wall- or ceiling-mount strobes and shall be rated from –35°F to 151°F.

Compatibility

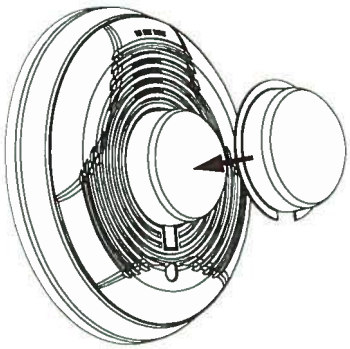
Color lens attachments may be used with the following System Sensor plain (non-FIRE-printed) indoor or outdoor strobe models: SR-P, SRH-P, SW-P, SWH-P, P2R-P, P2W-P, P2WH-P, P2RK-P, P2RHK-P, SCW-P, PC2R-P, PC2W-P, PC2WH-P, SPSW-P, SPSR-P, SPSWH-P, SPSRH-P, SPSWV-P, SPSRV-P, SPSCW-P, SPSCWH-P, SPSCWV-P, SPSCWVH-P, SRK-P, SRHK-P, SWK-P, SWHK-P, P2WK-P, P2WHK-P, SPSWK-P, SPSRK-P, SW-CLR-ALERT, SCW-CLR-ALERT, SPSCW-CLRALERT.

Color Lens Installation

Installation to Wall-Mount Strobe



Installation to Ceiling-Mount Strobe



Candela Rating for UL 1638

Light output of color lenses is measured per UL 1638, on axis, and is not derated.

Strobe Output (cd)	
Candela Switch Setting	**On-Axis Candela Rating (UL1638) – All Colors**
15	15
15/75*	NA
30	30
75	75
95	95
110	110
115	115
135	135
150	150
177	177
185	185

*15/75 Candela setting not to be used with color lenses

Ordering Information

Part No.	Description
Metal Weatherproof Backboxes	
MWBBW	white, wall-mount, compatible with: SPWK-R, SPWK, SPSWK-R, SPSWK-P, SPSWK
MWBB	red, wall-mount, compatible with: SPRK-R, SPRK
MWBBCW	white, ceiling-mount, compatible with: SPCWK, SPSCWK,SPCWK-R, SPSCWK, SPSCWK-R, SPSCWHK, SPSCWHK-R
SA-WBBW	white, wall-mount, compatible with: P2WK, P2WHK, P2WHK-P, P2WK-P, SWK, SWK-P,P2WHK-R, P2WK-R, SWHK-R
SA-WBB	red, wall-mount, compatible with: P2RK, P2RK-P, P2RK-R, SRK, SRK-P, SRK-R P2RHK, P4RK, P4RHK, SRHK, HRK, P2RHK-R, P2RK-R, HRK-R, P4RHK-R, P4RK-R, SRHK-R
SA-WBBCW	white, ceiling-mount, compatible with: PC2WK, SCWK
SA-WBBW	white, wall-mount, compatible with: P2WK, P2WHK, P2WHK-P, P2WK-P, SWK, SWK-P,P2WHK-R, P2WK-R, SWHK-R

Ordering Information (continued)

Part No.	Description
Surface Mount Back Box	
SBBR	red, wall-mount, compatible with: HR, CHR, SR, SR-SP, SRH, P2R, P2R-SP, P2RH, P4R, P4RH, CHSR, P2R-P, SR-P, SRH-P
SBBW	white, wall-mount, compatible with:HW, CHW, SW, SWH, P2W, P2WH, P4W, P4W-P, CHSW, P2W-P, P2WH-P, SW-P, SWH-P, SW-ALERT, SWH-ALERT
SBBSPR	red, wall-mount, compatible with: SPR, SPRV, SPSR, SPSRH, SPSRV, SPSR-P, SPSRH-P, SPSRV-P
SBBSPW	white, wall-mount, compatible with: SPW, SPWV, SPSW, SPSWH, SPSWV, SPSW-P, SPSWH-P, SPSWV-P, SPSW-ALERT, SPSW-CLR-ALERT
SBBCR	red, ceiling-mount compatible with: SCR, SCRH, PC2R, PC2RH, PC4R, PC4RH, SPCR, SPCRV, SPSCR, SPSCRH, SPSCRV, SPSCRVH, PC2R-P
SBBCW	white, ceiling-mount, compatible with: SCW, SCWH, PC2W, PC2W-SP, PC2WH, PC4W, SPCW, SPCWV, SPSCW, SPSCWH, SPSCWV, SPSCWVH, PC2W-P, PC2WH-P, SCW-P, SPSCW-P, SPSCWH-P, SPSCWHK-P, SPSCWV-P, SPSCWVH-P, SPSCW-CLR-ALERT, SCW-CLR-ALERT
Back Box Skirts	
BBS-2	red, wall-mount, compatible with: P2R, SR, HR, CHSR, CHR, P2RH, P4R, P4RH, SRH, P2R-P, P2RH-P, P4R-P, P4RH-P, SR-P, SRH-P, SR-SP, SRH-SP, P2R-SP, P2RH-SP
BBS-SP201W	Surface-mount back-box skirt for the PF24V (ExitPoint™ Directional Sounder with Voice Messaging)
SPBBS	red, wall-mount, compatible with: SPR, SPSR, SPRV,SPSR-P,SPSRH,SPSRH-P
Colored Lenses	
LENS-B	Wall-mount, blue
LENS-R	Wall-mount, red
LENS-G	Wall-mount, green
LENS-A	Wall-mount, amber
LENS-BC	Ceiling-mount, blue
LENS-RC	Ceiling-mount, red
LENS-GC	Ceiling-mount, green
LENS-AC	Ceiling-mount, amber

Part No.	Description
Decals	
DECAL-R	red, used for non-pad-printed wall-mount devices. (10 total decals per box for 5 devices)*
DECAL-RC	red, used for non-pad-printed ceiling-mount devices. (15 total decals per box for 5 devices)*
DECAL-W	white, used for non-pad-printed wall-mount devices. (10 total decals per box) for 5 devices*
DECAL-WC	white, used for non-pad-printed ceiling-mount devices. (15 total decals per box for 5 devices)*
*All Decals include Labels: "AGENT, EVAC, ALERT & FIRE"	
Retrofit Plates (For use with horn strobe & speaker strobe devices)	
RFPW	9.5" x 7" white
RFP	9.5" x 7" red
Mounting Plate	
MP120K	120 VAC Adapter Mounting Plate
Sync Modules	
MDL3W	white, 12/24 volt Sync-Circuit module.
MDL3R	red 12/24 volt Sync-Circuit module
Trim Rings	
TR	red, wall-mount for use with speaker devices
TRC	red, ceiling-mount for use with speaker devices
TRC-HS	red, ceiling-mount for use with horn strobe devices
TRCW	white, ceiling-mount for use with speaker devices
TRCW-HS	red, ceiling-mount for use with horn strobe devices
TR-HS	red, wall-mount for use with horn strobes devices
TRW	white, wall-mount for use with speaker devices
TRW-HS	white, wall-mount for use with horn strobe devices
Watertight Plates	
WTPW	white, for use with horn, strobes & horn strobe devices
WTP	red, for use with horn, strobes & horn strobe devices
WTP-SPW	white, for use with speaker devices
WTP-SP	red, for use with speaker devices

SYSTEM SENSOR

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www.systemsensor.com

AVDS00403 • 7/13

EOL-CR, EOL-CW

Universal End-of-Line Device Mounting Plates

NOTIFIER® by Honeywell

General

The EOL-CR and EOL-CW Universal End-of-Line Device Mounting Plates are used, when required, to place the end-of-line device at an accessible height. The EOL-CR/-CW consists of a terminal strip mounted on a heavy gauge metallic single-gang faceplate, finished in red or white baked enamel; it fits on a standard single-gang electrical box. The end-of-line device is included with the corresponding module in the central equipment.

Architectural/Engineering Specifications

The End-of-Line Device Mounting Plate shall be model EOL-CR/-CW. It shall consist of a terminal strip, mounted on a single-gang faceplate, made of heavy-gauge metal, finished in red (EOL-CR) or white (EOL-CW), and shall fit on a standard single-gang electrical box.

Agency Listings and Approvals

The listings and approvals below apply to the EOL-CR and EOL-CW Mounting Plates for End-of-Line Devices. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in progress. Consult factory for latest listing status.

- **ULC Listed:** File S7547

Ordering Information

EOL-CR: End-of-line device mounting plate (red). Shipping weight 0.17 kg (6 oz.).

EOL-CW: End-of-line device mounting plate (white). Shipping weight 0.17 kg (6 oz.).

EOL-CR

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This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

For more information, contact Notifier.
(888) 289-1114
10 Whitmore Road
Woodbridge, Ontario L4L 7Z4
www.notifier.com

FMM-1(A), FMM-101(A), FZM-1(A) & FDM-1(A)

Monitor Modules with FlashScan®

NOTIFIER® by Honeywell

Intelligent/Addressable Devices

General

Four different monitor modules are available for Notifier's intelligent control panels for a variety of applications. Monitor modules supervise a circuit of dry-contact input devices, such as conventional heat detectors and pull stations, or monitor and power a circuit of two-wire smoke detectors (FZM-1(A)).

FMM-1(A) is a standard-sized module (typically mounts to a 4" [10.16 cm] square box) that supervises either a Style D (Class A) or Style B (Class B) circuit of dry-contact input devices.

FMM-101(A) is a miniature monitor module a mere 1.3" (3.302 cm) H x 2.75" (6.985 cm) W x 0.5" (1.270 cm) D that supervises a Style B (Class B) circuit of dry-contact input devices. Its compact design allows the FMM-101(A) to be mounted in a single-gang box behind the device it monitors.

FZM-1(A) is a standard-sized module that monitors and supervises compatible two-wire, 24 volt, smoke detectors on a Style D (Class A) or Style B (Class B) circuit.

FDM-1(A) is a standard-sized dual monitor module that monitors and supervises two independent two-wire Style B (Class B) dry-contact initiating device circuits (IDCs) at two separate, consecutive addresses in intelligent, two-wire systems.

FlashScan® (U.S. Patent 5,539,389) is a communication protocol developed by NOTIFIER that greatly increases the speed of communication between analog intelligent devices. Intelligent devices communicate in a grouped fashion. If one of the devices within the group has new information, the panel CPU stops the group poll and concentrates on single points. The net effect is response speed greater than five times that of other designs.

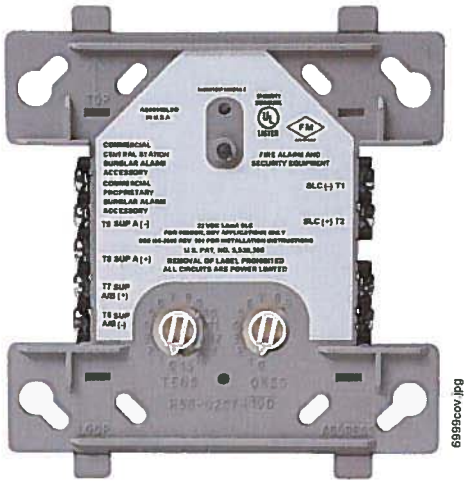
FMM-1(A) Monitor Module

- Built-in type identification automatically identifies this device as a monitor module to the control panel.
- Powered directly by two-wire SLC loop. No additional power required.
- High noise (EMF/RFI) immunity.
- SEMS screws with clamping plates for ease of wiring.
- Direct-dial entry of address: 01 – 159 on FlashScan loops; 01 – 99 on CLIP loops.
- LED flashes green during normal operation (this is a programmable option) and latches on steady red to indicate alarm.

The FMM-1(A) Monitor Module is intended for use in intelligent, two-wire systems, where the individual address of each module is selected using the built-in rotary switches. It provides either a two-wire or four-wire fault-tolerant Initiating Device Circuit (IDC) for normally-open-contact fire alarm and supervisory devices. The module has a panel-controlled LED indicator. The FMM-1(A) can be used to replace MMX-1(A) modules in existing systems.

FMM-1(A) APPLICATIONS

Use to monitor a zone of four-wire smoke detectors, manual fire alarm pull stations, waterflow devices, or other normally-open dry-contact alarm activation devices. May also be used to monitor normally-open supervisory devices with special supervisory indication at the control panel. Monitored circuit may be wired as an NFPA Style B (Class B) or Style D (Class A) Initiating Device Circuit. A 47K ohm End-of-Line Resistor (provided) terminates the Style B circuit. No resistor is required for supervision of the Style D circuit.



FMM-1(A) (Type H)

FMM-1(A) OPERATION

Each FMM-1(A) uses one of the available module addresses on an SLC loop. It responds to regular polls from the control panel and reports its type and the status (open/normal/short) of its Initiating Device Circuit (IDC). A flashing LED indicates that the module is in communication with the control panel. The LED latches steady on alarm (subject to current limitations on the loop).

FMM-1(A) SPECIFICATIONS

Nominal operating voltage: 15 to 32 VDC.

Maximum current draw: 5.0 mA (LED on).

Average operating current: 350 µA (LED flashing), 1 communication every 5 seconds, 47k EOL.

Maximum IDC wiring resistance: 40 ohms.

EOL resistance: 47K ohms.

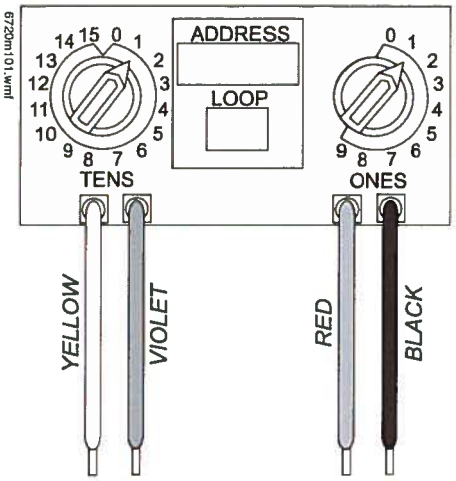
Temperature range: 32°F to 120°F (0°C to 49°C).

Humidity range: 10% to 93% noncondensing.

Dimensions: 4.5" (11.43 cm) high x 4" (10.16 cm) wide x 1.25" (3.175 cm) deep. Mounts to a 4" (10.16 cm) square x 2.125" (5.398 cm) deep box.

FMM-101(A) Mini Monitor Module

- Built-in type identification automatically identifies this device as a monitor module to the panel.
- Powered directly by two-wire SLC loop. No additional power required.
- High noise (EMF/RFI) immunity.
- Tinned, stripped leads for ease of wiring.
- Direct-dial entry of address: 01 – 159 on FlashScan loops; 01 – 99 on CLIP loops.



The FMM-101(A) Mini Monitor Module can be installed in a single-gang junction directly behind the monitored unit. Its small size and light weight allow it to be installed without rigid mounting. The FMM-101(A) is intended for use in intelligent, two-wire systems where the individual address of each module is selected using rotary switches. It provides a two-wire initiating device circuit for normally-open-contact fire alarm and security devices. The FMM-101(A) can be used to replace MMX-101(A) modules in existing systems.

FMM-101(A) APPLICATIONS

Use to monitor a single device or a zone of four-wire smoke detectors, manual fire alarm pull stations, waterflow devices, or other normally-open dry-contact devices. May also be used to monitor normally-open supervisory devices with special supervisory indication at the control panel. Monitored circuit/device is wired as an NFPA Style B (Class B) Initiating Device Circuit. A 47K ohm End-of-Line Resistor (provided) terminates the circuit.

FMM-101(A) OPERATION

Each FMM-101(A) uses one of the available module addresses on an SLC loop. It responds to regular polls from the control panel and reports its type and the status (open/normal/short) of its Initiating Device Circuit (IDC).

FMM-101(A) SPECIFICATIONS

Nominal operating voltage: 15 to 32 VDC.

Average operating current: 350 µA, 1 communication every 5 seconds, 47k EOL; 600 µA Max. (Communicating, IDC Shorted).

Maximum IDC wiring resistance: 40 ohms.

Maximum IDC Voltage: 11 Volts.

Maximum IDC Current: 400 µA.

EOL resistance: 47K ohms.

Temperature range: 32°F to 120°F (0°C to 49°C).

Humidity range: 10% to 93% noncondensing.

Dimensions: 1.3" (3.302 cm) high x 2.75" (6.985 cm) wide x 0.65" (1.651 cm) deep.

Wire length: 6" (15.24 cm) minimum.

FZM-1(A) Interface Module

- Supports compatible two-wire smoke detectors.
- Supervises IDC wiring and connection of external power source.
- High noise (EMF/RFI) immunity.
- SEMS screws with clamping plates for ease of wiring.
- Direct-dial entry of address: 01 – 159 on FlashScan loops, 01 – 99 on CLIP loops.
- LED flashes during normal operation; this is a programmable option.
- LED latches steady to indicate alarm on command from control panel.

The FZM-1(A) Interface Module is intended for use in intelligent, addressable systems, where the individual address of each module is selected using built-in rotary switches. This module allows intelligent panels to interface and monitor two-wire conventional smoke detectors. It transmits the status (normal, open, or alarm) of one full zone of conventional detectors back to the control panel. All two-wire detectors being monitored must be UL compatible with the module. The FZM-1(A) can be used to replace MMX-2(A) modules in existing systems.

FZM-1(A) APPLICATIONS

Use the FZM-1(A) to monitor a zone of two-wire smoke detectors. The monitored circuit may be wired as an NFPA Style B (Class B) or Style D (Class A) Initiating Device Circuit. A 3.9 K ohm End-of-Line Resistor (provided) terminates the end of the Style B or D (class B or A) circuit (maximum IDC loop resistance is 25 ohms). Install ELR across terminals 8 and 9 for Style D application.

FZM-1(A) OPERATION

Each FZM-1(A) uses one of the available module addresses on an SLC loop. It responds to regular polls from the control panel and reports its type and the status (open/normal/short) of its Initiating Device Circuit (IDC). A flashing LED indicates that the module is in communication with the control panel. The LED latches steady on alarm (subject to current limitations on the loop).

FZM-1(A) SPECIFICATIONS

Nominal operating voltage: 15 to 32 VDC.

Maximum current draw: 5.1 mA (LED on).

Maximum IDC wiring resistance: 25 ohms.

Average operating current: 300 µA, 1 communication and 1 LED flash every 5 seconds, 3.9k eol.

EOL resistance: 3.9K ohms.

External supply voltage (between Terminals T3 and T4): DC voltage: 24 volts power limited. Ripple voltage: 0.1 Vrms maximum. Current: 90 mA per module maximum.

Temperature range: 32°F to 120°F (0°C to 49°C).

Humidity range: 10% to 93% noncondensing.

Dimensions: 4.5" (11.43 cm) high x 4" (10.16 cm) wide x 1.25" (3.175 cm) deep. Mounts to a 4" (10.16 cm) square x 2.125" (5.398 cm) deep box.

FDM1(A) Dual Monitor Module

The FDM-1(A) Dual Monitor Module is intended for use in intelligent, two-wire systems. It provides two independent two-wire initiating device circuits (IDCs) at two separate, consecutive addresses. It is capable of monitoring normally open contact fire alarm and supervisory devices; or either normally open or normally closed security devices. The module has a single panel-controlled LED.

***NOTE:** The FDM-1(A) provides two Style B (Class B) IDC circuits ONLY. Style D (Class A) IDC circuits are NOT supported in any application.*

FDM-1(A) SPECIFICATIONS

Normal operating voltage range: 15 to 32 VDC.

Maximum current draw: 6.4 mA (LED on).

Average operating current: 750 µA (LED flashing).

Maximum IDC wiring resistance: 1,500 ohms.

Maximum IDC Voltage: 11 Volts.

Maximum IDC Current: 240 µA

EOL resistance: 47K ohms.

Maximum SLC Wiring resistance: 40 Ohms.

Temperature range: 32° to 120°F (0° to 49°C).

Humidity range: 10% to 93% (non-condensing).

Dimensions: 4.5" (11.43 cm) high x 4" (10.16 cm) wide x 2.125" (5.398 cm) deep.

FDM-1(A) AUTOMATIC ADDRESSING

The FDM-1(A) automatically assigns itself to two addressable points, starting with the original address. For example, if the FDM-1(A) is set to address "26", then it will automatically assign itself to addresses "26" and "27".

***NOTE:** "Ones" addresses on the FDM-1(A) are 0, 2, 4, 6, or 8 only. Terminals 6 and 7 use the first address, and terminals 8 and 9 use the second address.*

CAUTION:
Avoid duplicating addresses on the system.

Installation

FMM-1(A), FZM-1(A), and FDM-1(A) modules mount directly to a standard 4" (10.16 cm) square, 2.125" (5.398 cm) deep, electrical box. They may also be mounted to the SMB500 surface-mount box. Mounting hardware and installation instructions are provided with each module. All wiring must conform to applicable local codes, ordinances, and regulations. These modules are intended for power-limited wiring only.

The FMM-101(A) module is intended to be wired and mounted without rigid connections inside a standard electrical box. All wiring must conform to applicable local codes, ordinances, and regulations.

Agency Listings and Approvals

In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL:** S635
- **ULC:** S635
- **FM Approved**
- **CSFM:** 7300-0028:0219
- **MEA:** 457-99-E
- **U.S. Coast Guard:**
  - 161.002/23/3 *(AFP-200: FMM-1/-101, FZM-1)*
  - 161.002/42/1 *(NFS-640: FMM-1/-101)*
- **Lloyd's Register:**
  - 03/60011/E1 *(FMM-1/-101, FZM-1)*
  - 94/60004/E2 *(AFP-200: except FDM-1)*
  - 02/60007 *(NFS-640: FDM-1)*
- **FDNY:** COA #6038 (NFS2-640, NFS-320), COA# 6058 (NFS2-3030)

Product Line Information

***NOTE:** "A" suffix indicates ULC-listed model.*

FMM-1(A): Monitor module.

FMM-101(A): Monitor module, miniature.

FZM-1(A): Monitor module, two-wire detectors.

FDM-1(A): Monitor module, dual, two independent Class B circuits.

SMB500: Optional surface-mount backbox.

***NOTE:** See installation instructions and refer to the SLC Wiring Manual, PN 51253.*

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For more information, contact Notifier. Phone: (203) 484-7161, FAX: (203) 484-7118.
www.notifier.com

NBG-12 Series

Non-Coded Conventional Manual Fire Alarm Pull Stations

NOTIFIER® by Honeywell

Conventional Initiating Devices

General

The NOTIFIER **NBG-12 Series** is a cost-effective, feature-packed series of non-coded manual fire alarm pull stations. It was designed to meet multiple applications with the installer and end-user in mind. The NBG-12 Series features a variety of models including single- and dual-action versions.

The NBG-12 Series provides an alarm initiating input signal to conventional fire alarm control panels (FACPs) such as the SFP Series, and to XP Transponders. Its innovative design, durable construction, and multiple mounting options make the NBG-12 Series simple to install, maintain, and operate.

Features

- Aesthetically pleasing, highly visible design and color.
- Attractive contoured shape and light textured finish.
- Meets ADA 5 lb. maximum pull-force.
- Meets UL 38, Standard for Manually Actuated Signaling Boxes.
- Easily operated (single- or dual-action, model dependent), yet designed to prevent false alarms when bumped, shaken, or jarred.
- PUSH IN/PULL DOWN handle latches in the down position to clearly indicate the station has been operated.
- The word "ACTIVATED" appears on top of the handle in bright yellow, further indicating operation of the station.
- Operation handle features white arrows showing basic operation direction for non-English-speaking persons.
- Braille text included on finger-hold area of operation handle and across top of handle.
- Multiple hex- and key-lock models available.
- U.S. patented hex-lock needs only a quarter-turn to lock/unlock.
- Station can be opened for inspection and maintenance without initiating an alarm.
- Product ID label viewable by simply opening the cover; label is made of a durable long-life material.
- The words "NORMAL" and "ACTIVATED" are molded into the plastic adjacent to the alarm switch (located inside).
- Four-position terminal strip molded into backplate.
- Terminal strip includes Phillips combination-head captive 8/32 screws for easy connection to Initiating Device Circuit (IDC).
- Terminal screws backed-out at factory and shipped ready to accept field wiring (up to 12 AWG/3.1 mm²).
- Terminal numbers are molded into the backplate, eliminating the need for labels.
- Switch contacts are normally open.
- Can be surface-mounted (with **SB-10** or **SB-I/O**) or semi-flush mounted. Semi-flush mount to a standard single-gang, double-gang, or 4" (10.16 cm) square electrical box.
- Backplate is large enough to overlap a single-gang backbox cutout by 1/2" (1.27 cm).
- Optional trim ring (**BG12TR**).
- Spanish versions *(FUEGO)* available (**NBG-12LSP, NBG-12LPSP**).
- Designed to replace the legacy **NBG-10** Series.
- Models packaged in attractive, clear plastic (PVC), clam-shell-style, Point-of-Purchase packages. Packaging includes a cutaway dust/paint cover in shape of pull station.

6643cov.jpg

Construction

- Cover, backplate and operation handle are all molded of durable polycarbonate material.
- Cover features white lettering and trim.
- Red color matches System Sensor's popular SpectrAlert® Advance horn/strobe series.

Operation

The NBG-12 manual pull stations provide a textured finger-hold area that includes Braille text. In addition to PUSH IN and PULL DOWN text, there are arrows indicating how to operate the station, provided for non-English-speaking people.

Pushing in and then pulling down on the handle activates the normally-open alarm switch. Once latched in the down position, the word "ACTIVATED" appears at the top in bright yellow, with a portion of the handle protruding at the bottom as a visible flag. Resetting the station is simple: insert the key or hex (model dependent), twist one quarter-turn, then open the station's front cover, causing the spring-loaded operation handle to return to its original position. The alarm switch can then be reset to its normal (non-alarm) position manually (by hand) or by closing the station's front cover, which automatically resets the switch.

Specifications

PHYSICAL SPECIFICATIONS:

pull station		SB-10	SB-I/O	WBB	WP-10
H	5.500 in. (13.97 cm)	5.500 in. (13.97 cm)	5.601 in. (14.23 cm)	4.25 in. (10.79 cm)	6.000 in. (15.24 cm)
W	4.121 in. (10.467 cm)	4.125 in. (10.478 cm)	4.222 in. (10.72 cm)	4.25 in. (10.79 cm)	4.690 in. (11.913 cm)
D	1.390 in. (3.531 cm)	1.375 in. (3.493 cm)	1.439 in. (3.66 cm)	1.75 in. (4.445 cm)	2.000 in. (5.08 cm)

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ELECTRICAL SPECIFICATIONS:

Switch contact ratings: gold-plated; rating 0.25 A @ 30 VAC or VDC. **Auxiliary contact circuit** (Terminals 3 & 4, NBG-12LA): rated to 3.0 A @ 30 VAC or VDC.

ENGINEERING/ARCHITECTURAL SPECIFICATIONS

Manual Fire Alarm Stations shall be non-code, with a key- or hex-operated reset lock in order that they may be tested, and so designed that after actual Emergency Operation, they cannot be restored to normal except by use of a key or hex. An operated station shall automatically condition itself so as to be visually detected as activated. Manual stations shall be constructed of red colored LEXAN (or polycarbonate equivalent) with clearly visible operating instructions provided on the cover. The word **FIRE** shall appear on the front of the stations in white letters, 1.00 inches (2.54 cm) or larger.* Stations shall be suitable for surface mounting on matching backbox SB-10 or SB-I/O; or semi-flush mounting on a standard single-gang, double-gang, or 4" (10.16 cm) square electrical box, and shall be installed within the limits defined by the Americans with Disabilities Act (ADA) or per national/local requirements. Manual Stations shall be Underwriters Laboratories listed.

***NOTE:** *The words "FIRE/FUEGO" on the NBG-12LSP and NBG-12LPSP shall appear on the front of the station in white letters, approximately 3/4" (1.905 cm) high.*

Pre-Signal Models

The **NBG-12LPS** and **NBG-12LPSP** pull stations are non-coded manual pull stations which provide a FACP with two normally open alarm initiating input signals. "Pre-signal" input is activated by pushing in, then pulling down, the dual-action handle. A "general" alarm input signal can be manually activated via a momentary rocker switch mounted inside the unit. This general alarm switch can only be accessed by opening the cover with the supplied key/lock. *See diagram at right.*

Agency Listings and Approvals

The listings and approvals below apply to the NBG-12 Series pull stations. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **C(UL)US** Listed: file S692.
- **CSFM** approved: file 7150-0028:199.
- **FM** approved *(except NBG-12LPS, NBG-12LPSP).*
- **MEA** approved: file 67-02-E *(NBG-12, NBG-12L, NBG-12LOB, NBG-12LA).*
- **Lloyd's Register** type approved: file 93/60141 (E3) *(NBG-12, NBG-12L, NBG-12LA, NBG-12LOB, NBG-12S).*
- **U.S. Coast Guard** approved: files 161.002/23/3 *(AFP-200 with NBG-12, NBG-12L, NBG-12S)*; 161.002/42/1 *(NFS-640 with NBG-12, NBG-12L, NBG-12S)*; 161.002/27/3 *(AFP1010/AM2020 with NBG-12, NBG-12L, NBG-12S).*
- **Patented:** U.S. Patent No. D428,351; 6,380,846; 6,314,772; 6,632,108.

Product Line Information

NBG-12S: Single-action pull station with pigtail connections, hex lock.

NBG-12: Dual-action pull station with SPST N/O switch, screw terminal connections, ***hex lock.***

NBG-12L: Dual-action pull station with SPST N/O switch, screw terminal connections, ***key lock.***

NBG-12LSP: Same as NBG-12L with English/Spanish *(FIRE/FUEGO)* labeling.

NBG-12LPS: Dual-action pull station with pre-signal option.

NBG-12LPSP: Same as NBG-12LPS with English/Spanish *(FIRE/FUEGO)* labeling.

NBG-12LOB: Dual-action pull station with key lock, outdoor applications listings (**NBG-12LO**), and backbox. Includes **SB-I/O** indoor/outdoor backbox, and sealing gasket. Model will also mount to **WP-10** weatherproof backbox in retrofit applications.

***NOTE:** NBG-12LO not available separately;*
NBG-12LO + approved backbox = NBG-12LOB.
Outdoor applications listings apply to NBG-12LOB combination.

NBG-12LA: Dual-action pull station with key lock and annunciator contacts.

SB-10: Surface-mount backbox, metal.

SB-I/O: Surface-mount backbox, plastic. *(Included with NBG-12LOB.)*

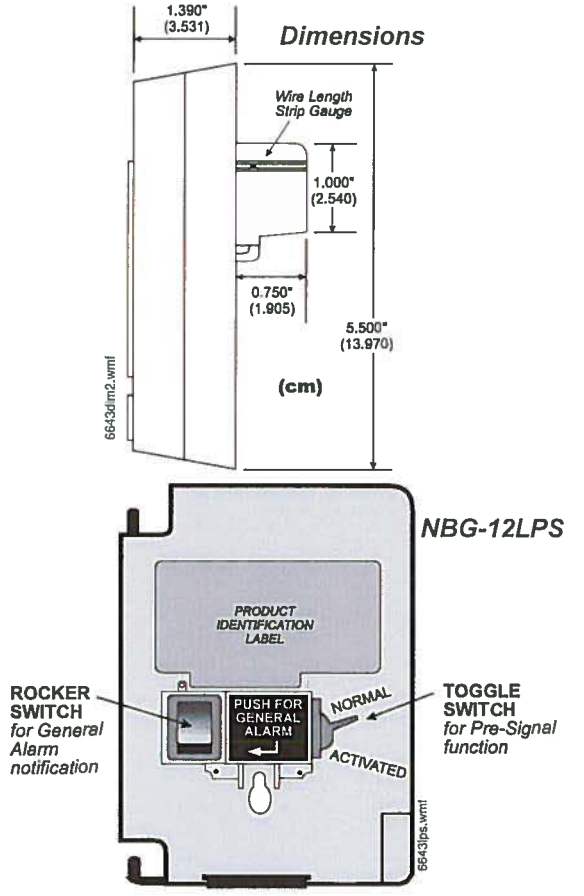
BG12TR: Optional trim ring for semi-flush mounting.

WP-10: Outdoor use backbox.

17021: Keys, set of two. (Included with key-lock pull stations.)

17007: Hex key, 9/64". (Included with hex-lock pull stations.)

***NOTE:** For addressable NBG-12LX models, see data sheet DN-6726.*



ISO 9001 CERTIFIED
ENGINEERING & MANUFACTURING
QUALITY SYSTEMS

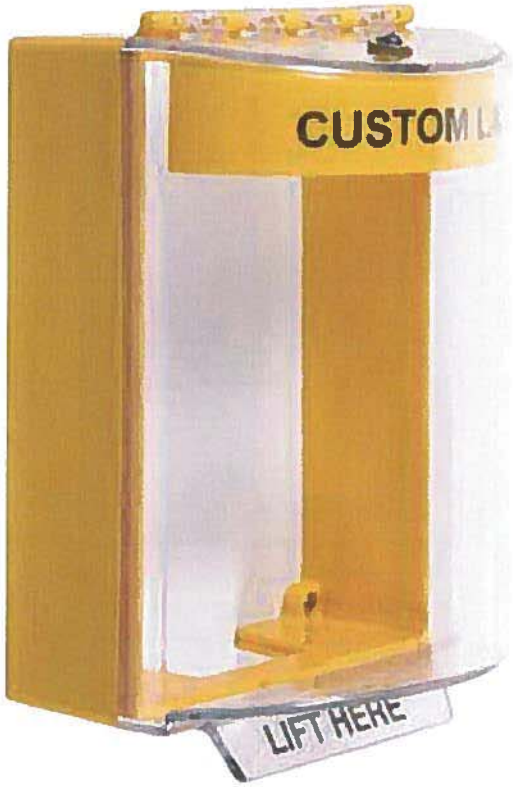
This document is not intended to be used for installation purposes.
We try to keep our product information up-to-date and accurate.
We cannot cover all specific applications or anticipate all requirements.
All specifications are subject to change without notice.

Made in the U.S. A.

For more information, contact Notifier. Phone: (203) 484-7161, FAX: (203) 484-7118.
www.notifier.com

polycarbonate products

STI Universal Stopper®



Shown with waterproof back box

Indoor/Outdoor

ADA Compliant
See Reverse For Details

PRODUCT OVERVIEW

These indoor/outdoor low profile or dome polycarbonate covers protect devices such as dual action pull stations, keypads for entry systems, intercom stations, emergency buttons, electrical light switches, duplex plugs, etc., without restricting legitimate operation. The versatile cover offers excellent protection against physical damage (both accidental and intentional), dust and grime as well as severe environments inside and out.

Cover options: Dome or Low Profile, with or without horn, flush mount, surface mount or waterproof back box models. Maximum protrusion is 4 inches deep. Cover has the same footprint as the Mini Stopper® but accommodates most dual action pull stations.

FEATURES

- Protects against vandalism, accidental damage, dust and grime and severe environments inside and outside.
- Protects pull stations, keypads, intercom stations, emergency buttons, electrical light switches or duplex plugs.
- Cover is molded from thick, tough polycarbonate material.
- Cover available in low profile or dome shape.
- Flush frame, surface frame or waterproof back box (with sealed or open internal mounting plate), enclosed flush back box.
- Top and bottom of waterproof back box are threaded for 3/4" NPT rigid conduit.
- Sized to fit most pull stations.
- High strength continuous hinge.
- Dome models have optional relay output with 12-24 VDC power input.
- Gaskets included.
- ADA Compliant.
- Locking tab (not for use with fire pull stations).
- Dome models available with or without 105 dB horn.
- Dome models available with red, green, blue, yellow, white or black label hood/horn housing with custom or no label.
- Available for red units "In Case of Fire..." label.
- UV-stabilized to keep cover clear.
- Typical working properties of polycarbonate are -40° to 250°F (-40° to 121°C).
- No charge for custom label. (See reverse for details.)
- Three year guarantee against breakage of polycarbonate in normal use (one year on electro mechanical and electronic components).

STI Universal Stopper®

Dimensions and Technical Information

BUILD YOUR MODEL

STI-1 _ _ _ _ _ _

Cover Options

3 = Dome Cover
4 = Low Profile Cover*

*Only available with Hood/Horn option "0"

Mounting Options

0 = Flush Mount
2 = Surface Mount
3 = Enclosed Flush Back Box
4 = Enclosed Back Box & Sealed Mounting Plate**
5 = Enclosed Back Box & Opened Mounting Plate**
8 = Enclosed Back Box & European Sealed Mounting Plate**
9 = Enclosed Back Box & European Open Mounting Plate**

**all colors except NC

Hood/Horn

0 = No Label Hood (Label must start with 'N.' If Hood/Horn Option = 0 and Mounting Option = 0 or 3, the label must be NC)
1 = Label Hood without Horn**
2 = Label Hood with Horn**
3 = Label Hood with Horn & Relay**

**all colors except NC

Special Electronics

0 = None
1 = Heat (available with Mounting Options 4, 5, 8 & 9)**

**Coming soon

Housing/Horn Color & Label

Fire label	Free Custom label*
FR = Red -- Fire label	CK = Black*
No label	CB = Blue*
NK = Black	CG = Green*
NB = Blue	CR = Red*
NC = Clear	CW = White*
NG = Green	CY = Yellow*
NR = Red	*must provide custom label wording (2 lines, 20 characters per line including spaces)
NW = White	
NY = Yellow	

COVER OPTIONS - SIDE VIEW

Dome

Low Profile

MOUNTING OPTIONS

FLUSH

SURFACE

BACK BOX
Enclosed Flush

BACK BOX
With Sealed Mounting Plate

BACK BOX
With Opened Mounting Plate

BACK BOX
With European Sealed Mounting Plate

BACK BOX
With European Opened Mounting Plate

APPROVAL & WARRANTY

TESTING

· ADA Compliant

Cover option '3' only has been tested and approved or listed by:

· UL/cUL Listed No. S2466 (Type rating pending). Excludes mounting options 8 and 9.

Flush, Surface or Back Box with opened Mounting Plate
· IP Rating 56

Back Box with sealed Mounting Plate
· IP Rating 66

WARRANTY

Three year guarantee against breakage of polycarbonate in normal use (one year on electro mechanical and electronic components).

IMPORTANT NOTICE

When used on fire systems, Universal Stopper is intended for areas where the incidence of false fire alarms from manual pull stations is high or has proven to be a serious problem. Any disadvantage of the device is more than balanced when one considers the consequences of false fire alarms, especially if fire service personnel and equipment are responding to a false fire alarm when they are needed for a real fire somewhere else. Add to this the disruption to the facility when false alarms occur. If you have, or may have, a problem with false fire alarms or physical/weather damage to your fire alarm activation devices, the Universal Stopper could prove invaluable.

Safety Technology International, Inc.

2306 Airport Road
Waterford, Michigan
48327, USA

Tel: 248-673-9898
Fax: 248-673-1246
Toll-free: 800-888-4784
info@sti-usa.com
www.sti-usa.com

Unit 49G Pipers Road
Park Farm Industrial Estate
Redditch, Worcestershire
B98 0HU England

Tel: 44 (0) 1527 520 999
Fax: 44 (0) 1527 501 999
Free: 0800 085 1678 (UK)
www.sti-europe.com

Fire Detection Devices
CR/CF-MP Series
Moisture-Proof Heat Detectors

Features

- Dual Action Rate of Rise & Fixed Temperature
- Detects Rate of Ambient temperature rise of 8°C (15°F)
- Detectors operating on fixed temperatures are only available in two settings of 135°F (57°C) or 200°F (93°C)
- Clear-anodized aluminium finish

Description

The CR and CF-MP Series Moisture Proof Detectors are designed for hazardous locations and Moisture Proof applications. Each Moisture Proof detector is available in single or multiple circuits with open and/or closed contact configurations, and any of the fixed temperature settings including 135, 165, 200 and 285 degrees Farenheit.

The Moisture Proof detector is characterized by a black phenol-plastic seal plate and black and white pigtail connections. It is specified for use in high humidity environments and areas that are subject to corrosive elements or spray washing. The suffix "MP" denotes "Moisture Proof".

CR-135MP

The Model CR-135MP is a combination Rate-of-Rise and Fixed Temperature detector. A set of normally open contacts will close when the ceiling temperature increases at a (minimum) rate of 8.4°C (15°F) per minute. Closing the contacts initiates the fire alarm sequence. Independent of the rate-of-rise operation, the fixed temperature portion consists of a spring-loaded plunger retained by a fusible alloy that releases when the ceiling temperature reaches 135°F (57°C). When released, the plunger strikes the contacts and holds them closed. Spacing on an uninterrupted ceiling is 70 ft. (21.3m) for the rate-of-rise; 40 ft. (12.2m) for the fixed temperature portion.

CF-135MP

The Model CF-135MP is a Fixed Temperature Only detector. The fixed temperature portion consists of a spring-loaded plunger retained by a fusible alloy that releases when the ceiling temperature reaches 135°F (57°C). When released, the plunger strikes a normally open set of contacts and holds them closed. Spacing on an uninterrupted ceiling is 40 ft. (21.3m). The CF-135MP is identified by a black dot on its heat collector fin.

CR-200MP

The Model CR-200MP is a combination Rate-of-Rise and Fixed Temperature detector that operates in the same way as the CR-135MP, with the exception that the fixed temperature portion releases when the ceiling temperature reaches 200°F (93°C). Spacing on an uninterrupted ceiling is 70 ft. (21.3) for the rate-of-rise, and 25 ft.(7.6m) for the fixed temperature portion (a reduced spacing parameter from the CF-135MP). The CR-200MP is identified by a white dot on its heat collector fin.

CF-200MP

The Model CF-200MP is a Fixed Temperature Only detector. The fixed temperature portion releases when the ceiling temperature reaches 200°F (93°C). Spacing is 25 ft., (7.6m). The CF-200MP is identified by a black dot and a white dot on the heat collector fin.

Canada 25 Interchange Way, Vaughan (Toronto), Ontario L4K 5W3 Telephone: (905) 695-3549 Fax: (905) 660-4113 • **Web Page:** www.summit-st.net
U.S.A. 4575 Witmer Industrial Estates, Niagara Falls, NY 14305 Telephone: (866) 786-6480 Fax: (888) 660-4113 • **E-mail:** mail@summit-st.net

Contact Configurations

Any Detector in the Moisture Proof Series is available in Normally Open (by far the most common) or Normally Closed, or Multiple Circuit configurations. The Model Number does not reflect the Normally Open configuration, however the letter "C" denotes Normally Closed. For example: "CR 135 C MP" describes a rate-of-rise / fixed temperature detector, fusing at 135°F., with Normally Closed contacts, assembled with the moisture proof seal plate.

Engineering Specifications

The CR & CF Series Moisture Proof detectors shall be installed in areas where corrosive elements exist or washing of walls and ceiling surfaces is commonplace. The fixed temperature portion and the rate-of-rise operation shall be determined by the ambient temperature. The Moisture Proof detectors shall be installed in areas where environmental conditions including dust, vapours, insects, etc., would cause an ionization or photoelectric type detector to initiate a false alarm.

Specifications

Contact Rating
3A @ 125 VAC 1A @ 28 VDC 0.3A @ 125 VDC 0.1A @ 250 VDC

Dimensions	
Diameter	5.25" (13.4 cm)
Height	2.0" (4.85 cm)
Weight	
0.41 lb. (330 gm)	

Ordering Information

Model Number	Description
CR-135MP	Rate of Rise & Fixed Temperature to 135°F (57°C) Moisture Proof Heat Detector
CR-200MP	Rate of Rise & Fixed Temperature to 200°F (93°C) Moisture Proof Heat Detector
CF-135MP	Fixed Temperature 135°F (57°C) Moisture Proof Heat Detector
CF-200MP	Fixed Temperature 200°F (93°C) Moisture Proof Heat Detector

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: Joël Morliere Date: 2017-06-12

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Agnico Eagle No. 6515-C-270-007-265-SPD-0001 R: Sub001

DOCUMENT FOR INFORMATION

wsp

SHOP DRAWING
DATA SHEET

Affixing this stamp confirms that an administrative approval and/or a verification of compliance with shop drawings or specifications was made, but does not entail the liability of the author of the work or its owner with regards to this shop drawing or data sheet, for which the contractor is the sole responsible.

☑ Reviewed ☐ Reviewed as noted

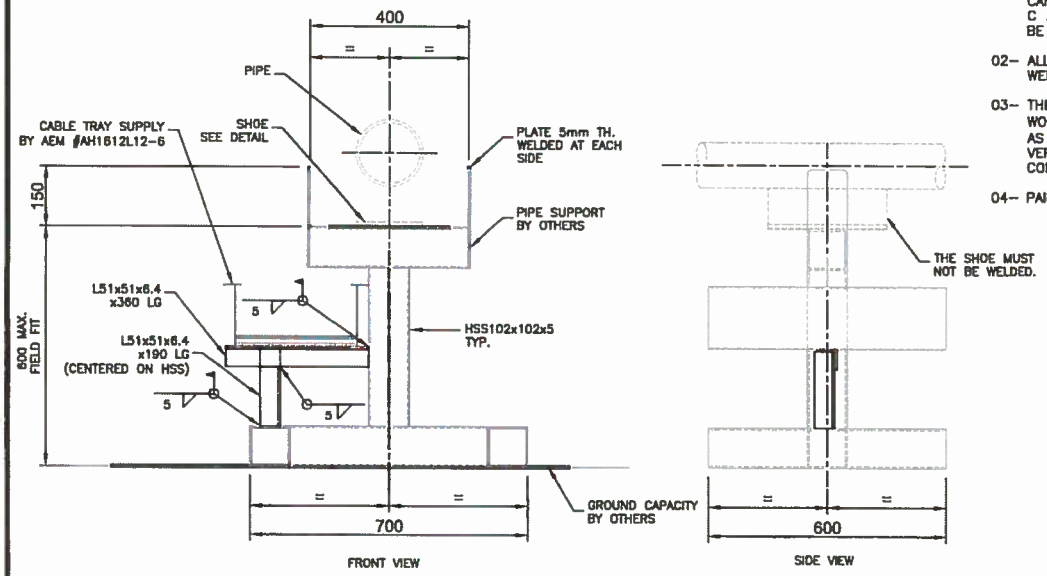
☐ Rejected ☐ Filed for records

The contractor, supplier and/or sub-contractor is responsible for: comfirming and coordinating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his or her work with that of all other trades and performing all work in a safe and satisfactory manner.

By: J. Morliere Date: 2017/06/12

Project # 151-06440-40

Tracé par: "BOURJ26", 2017-05-05 14:46:09 (Lts: 0.25 ; Mes: 1)
P:\300-RN\643812\0000\4-Ingenierie\D-Dessins maitres\43-ST\643812-0000-43DD-0001-0.dwg
Format: Lettre/Légal Ver.: 4.2 2016-01-26



CABLE TRAY SUPPORT (1)

ÉCHELLE : 1 : 15

GENERAL NOTES

01– STRUCTURAL STEEL MUST RESPECT CRITERIA LISTED IN CAN/CSA–G40.20 AND CAN/CSA–G40.21, GRADE 350 W WITH EXCEPTION OF C AND L PROFILES WHICH ARE TOBE OF GRADE 300 W. HSS PROFILES TO BE OF ASTM 500 TYPE C GRADE 345 W.

02– ALL STRUCTURAL MEMBERS MUST BE CLEANED BY GRINDING PRIOR TO ALL WELDING WORKS.

03– THE CONTRACTOR OR SUB–CONTRACTOR MUST PROCEED WITH ALL WELDING WORKS IN ACCORDANCE WITH W59–03(R2008). HE MUST ALSO BE CERTIFIED AS PER W47.1–09(R2014). THE ENGINEER/OWNER RESERVES THE RIGHT TO VERIFY THESE CERTIFICATIONS BEFORE AS WELL AS AFTER THE PROJECT COMMENCEMENT.

04– PAINT BY OTHERS

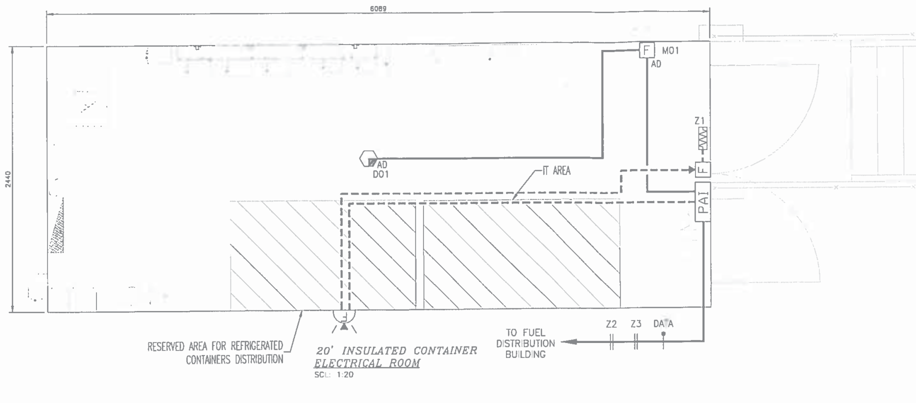
REGISTERED PROFESSIONAL ENGINEERS
M.Y DIALLO
LICENSEE
NT/NU
2017-05-05

POUR CONSTRUCTION
FOR CONSTRUCTION
SNC·LAVALIN
2017-05-05

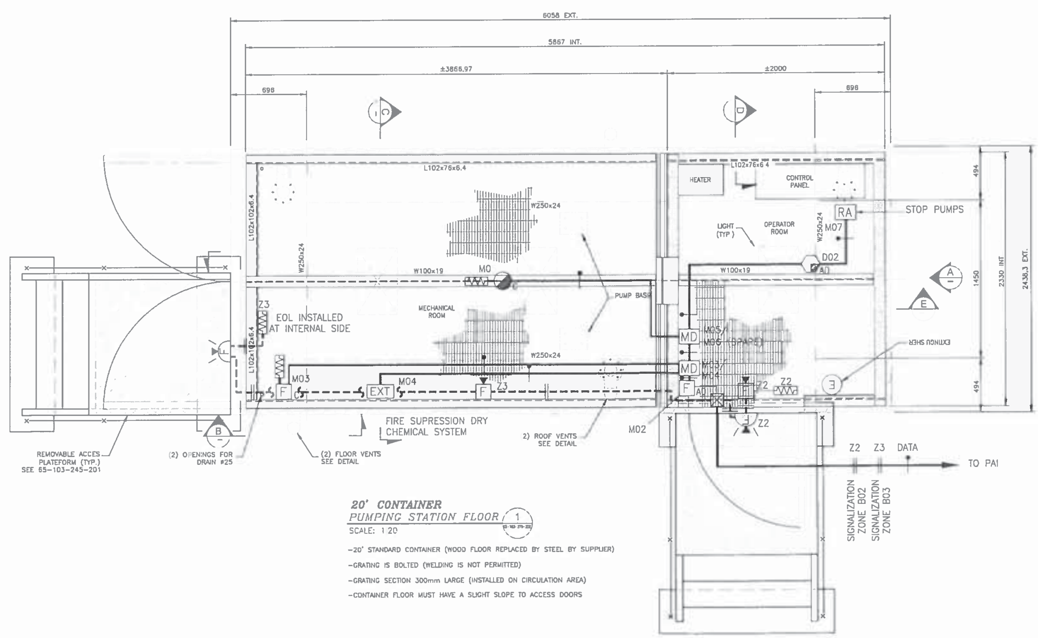
REV.	DATE	ISSUES	BY	CHK	APP.
0	2017-05-05	ISSUED FOR CONSTRUCTION	M.LAN	M.DIA	B.CHA
A	2017-05-04	ISSUED FOR APPROVAL	M.LAN	M.DIA	B.CHA

SNC·LAVALIN
SNC-Lavalin Stavibel Inc.
150, rue Gamble Ouest
Rouyn-Noranda (Québec) J9X 2R7
Tel. : 819 764-5161 Fax : 819 797-0158
www.snclavalin.com

Client / Project : AGNICO EAGLE - MELIADINE DIVISION			
Title : 103 - COMBUSTIBLES SUPPORT SECTION			
Drawn by : Michel Lanthier, tech.	Verified by : Mohamed Diallo, ing.	Project manager : Dany Lambert, ing.	Project # : 643812-0000
Designed by : Mohamed Diallo, ing.	Approved by : Mohamed Diallo, ing.	Org. Date : 2017-05-04	Reference : -
Scale : INDICATED	Drawing # : 643812-0000-43DD-0001	Rev. : 0	



20' INSULATED CONTAINER
ELECTRICAL ROOM
SCL: 1:20

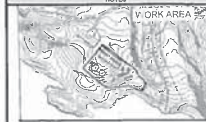


20' CONTAINER
PUMPING STATION FLOOR (1)
SCALE: 1:20

- 20' STANDARD CONTAINER (WOOD FLOOR REPLACED BY STEEL BY SUPPLIER)
- GRATING IS BOLTED (WELDING IS NOT PERMITTED)
- GRATING SECTION 300mm LARGE (INSTALLED ON CIRCULATION AREA)
- CONTAINER FLOOR MUST HAVE A SLIGHT SLOPE TO ACCESS DOORS

IMPORTANT !

NOTES



LEGEND

- PAI — FIRE ALARM CONTROL PANEL NOTIFIER #NFS-320C
- F AD — ADDRESSABLE MANUAL PULL STATION # NBG-12LX, C/W FLASH MOUNTED BACKBOX # SB-10, INSTALLATION AT 1200mm TOP.
- F C — CONV. MANUAL PULL STATION # NBG-12L, C/W FLASH MOUNTED BACKBOX # SB-10 & PROTECTOR # STI-1340FR, INSTALLATION AT 1200mm TOP.
- AD — ADDRESSABLE COMBINED SMOKE / THERMIC DETECTOR # FAPT-851A, C/W BASE MOUNTED ON OCTOGONAL BACKBOX
- RA — ADDRESSABLE RELAY MODULE # FRM-1A, MOUNTED ON BOX 4 x 4 x 2 1/8
- MD — ADRESSABLE SUPERVISORY DOUBLE MODULE # FDM-1A, MONTED ON BOX 4 x 4 x 2 1/8
- C — CONVENTIONAL THERMIC DETECTOR, HUMIDITY PROOF# CR-135MP, C/W BASE MOUNTED ON OCTOGONAL BACKBOX
- F — FIRE ALARM RED HORN # HRA CEILING MOUNTED ON BOX 4 x 4 x 2 1/8
- F — COMBINED FIRE ALARM RED HORN/STROBE # P2RKA-B CEILING MOUNTED C/W BACKBOX
- END OF LINE RED PLATE # EOL-CR, MOUNTED ON ONE GANG BACKBOX
- EXT — FIRE SUPRESSION DRY CHEMICAL SYSTEM
- ☒ — JUNCTION BOX
- 3 #18 AWG FOR ADDRESSABLE LOOP FAS FT4
- 2 #14 AWG RW90 SOLID FOR SIGNALIZATION

REQUIREMENTS & APPROVALS

APPLICABLE CODES & STANDARDS

- ☐ N.F.P.A. 72
- ☐ N.F.P.A. 14
- ☐ N.F.P.A. 15
- ☐ N.F.P.A. 16
- ☐ N.F.P.A. 20
- ☐ N.F.P.A. 24
- ■ ULC-S524
- ☐ -
- ☐ -

DESIGN ACCORDING TO

- ☐ N.F.P.A. 72
- ☐ F.M.
- ■ CNB-2005

APPROVED BY	ISSUED	APPROVAL
-	-	-

ENGINEER STAMP

REVISIONS

REV.	DESCRIPTION	BY	DATE
A	EMIS POUR INFORMATION	R.B.	2017-06-15

MONTREAL — 3005 Pitfield Blvd St-Laurent (Quebec) H4S 1H4 — Tel. (514) 332-6110 Fax (514) 332-6260

VIKING FIRE PROTECTION INC

DATE: 2017-06-13	AGNICO EAGLE - MELIADINE DIVISION
DRAWN BY: R. BASSAL	103 COMBUSTIBLE RANKIN
CHECKED BY: P. NOEL	PROJECT: MONTRÉAL - QUÉBEC
	SECTION: SCHÉMA UNIFILAIRE D'ALARME INCENDIE
	CONTRACT WITH

CONTRACT NO.	SCALE	SHEET NO.	DRAWING NO.
TMC10774	N/A	1 de 1	T1077401A

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: JEAN-FRANCOIS TREMBLAY Date: 2017-06-29

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Agnico Eagle No. 6515-C-270-007-141-TES-0002 R: Sub002

DOCUMENT FOR INFORMATION

NUQSANA PROMEC MINING

AGNICO-EAGLE MINES Ltd.
Inspection & Testing Report

ITR Number: AEM-EL-ITR-001
ITR Type: GENERAL
Contract No.: 6515-C-270-007

AGNICO EAGLE

Tag Number:		**Equipment/ Pipe N°:**		**System:**	
Service:		**Function:**		**Purchase Order:**	
Manufacturer:		**Model:**		**Serial Number:**	
Location Dwg :		**Reference Datasheet:**		**Installation Detail Dwg:**	
Reference Datasheet Number:					

Item N°	Inspection Points	C	NC/ NCR #	N/A	Completed By/ Date
1	DEVICE INSTALLED AS PER INSTALLATION DETAILS, LOCATION OR MANUFACTURERS DRAWINGS	C	NC #	N/A	Promec: CLIENT:
2	EQUIPMENT ACESSIBLE AND EASY TO MAINTAIN	C	NC #	N/A	Promec: CLIENT:
3	EQUIPMENT RACK OR CLAMPING DEVICE ADEQUATE (HEIGHT, SOLIDITY ETC.)	C	NC #	N/A	Promec: CLIENT:
4	GROUNDING INSTALLED AND CONNECTED	C	NC #	N/A	Promec: CLIENT:
5	TERMINAL CONNECTION CONNECTED AND TORQUED	C	NC #	N/A	Promec: CLIENT:
6	BREAKER CONNECTIONS CONNECTED AND TORQUED	C	NC #	N/A	Promec: CLIENT:
7	LUG BOLT TORQUE	C	NC #	N/A	Promec: CLIENT:
8	POWER BUS BAR BOLTED AND TORQUED	C	NC #	N/A	Promec: CLIENT:
9	GROUND BUS BAR BOLTED AND TORQUED	C	NC #	N/A	Promec: CLIENT:
10	MEGGER EQUIPMENT	C	NC #	N/A	Promec: CLIENT:
11	MEGGER CABLES	C	NC #	N/A	Promec: CLIENT:
12	HI-POT TEST	C	NC #	N/A	Promec: CLIENT:
13	PANELS IDENTIFIED	C	NC #	N/A	Promec: CLIENT:
14	UNIT DRAWER IDENTIFIED	C	NC #	N/A	Promec: CLIENT:
15	BREAKERS IDENTIFIED	C	NC #	N/A	Promec: CLIENT:
16	CABLES IDENTIFIED	C	NC #	N/A	Promec: CLIENT:
17	SEAL O RING INSTALLED (IF APPLICABLE)	C	NC #	N/A	Promec: CLIENT:
18	FUSES INSTALLED AND OF ADEQUATE SIZE	C	NC #	N/A	Promec: CLIENT:
18	VISUAL INSPECTION	C	NC #	N/A	Promec: CLIENT:
20	CLEAN / VACUUMED	C	NC #	N/A	Promec: CLIENT:

NUQSANA PROMEC MINING

AGNICO-EAGLE MINES Ltd.
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AGNICO EAGLE

Tag Number:		Equipment/ Pipe N°:		System:	
Service:		Function:		Purchase Order:	
Manufacturer:		Model:		Serial Number:	
Location Dwg :		Reference Datasheet:		Installation Detail Dwg:	
Reference Datasheet Number:					

Item N°	Inspection Points	C	NC/ NCR #	N/A	Completed By/ Date
21	PANEL AND DOOR CLOSED AND BOLTED	C	NC #	N/A	Promec: CLIENT:

Comments

Sign Off			
Promec Signature:		CLIENT Signature:	
Date:		Date:	

Legend					
C	Conformance	NC	Non Conformance	N/A	Not Applicable
NCR	Non Conformance Report				

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

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3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: JEAN-FRANCOIS TREMBLAY Date: 2017-06-29

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Agnico Eagle No. 6515-C-270-007-141-TES-0002 R: Sub002

DOCUMENT FOR INFORMATION

NUQSANA-PROMEC MINING

AGNICO-EAGLE MINES Ltd.
Inspection & Testing Report

ITR Number: AEM-EL-ITR-001
ITR Type: GENERAL
Contract No.: 6515-C-270-007

AGNICO EAGLE

Tag Number:		**Equipment/ Pipe N°:**		**System:**	
Service:		**Function:**		**Purchase Order:**	
Manufacturer:		**Model:**		**Serial Number:**	
Location Dwg :		**Reference Datasheet:**		**Installation Detail Dwg:**	
Reference Datasheet Number:					

Item N°	Inspection Points	C	NC/ NCR #	N/A	Completed By/ Date
1	DEVICE INSTALLED AS PER INSTALLATION DETAILS, LOCATION OR MANUFACTURERS DRAWINGS	C	NC #	N/A	Promec: CLIENT:
2	EQUIPMENT ACESSIBLE AND EASY TO MAINTAIN	C	NC #	N/A	Promec: CLIENT:
3	EQUIPMENT RACK OR CLAMPING DEVICE ADEQUATE (HEIGHT, SOLIDITY ETC.)	C	NC #	N/A	Promec: CLIENT:
4	GROUNDING INSTALLED AND CONNECTED	C	NC #	N/A	Promec: CLIENT:
5	TERMINAL CONNECTION CONNECTED AND TORQUED	C	NC #	N/A	Promec: CLIENT:
6	BREAKER CONNECTIONS CONNECTED AND TORQUED	C	NC #	N/A	Promec: CLIENT:
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10	MEGGER EQUIPMENT	C	NC #	N/A	Promec: CLIENT:
11	MEGGER CABLES	C	NC #	N/A	Promec: CLIENT:
12	HI-POT TEST	C	NC #	N/A	Promec: CLIENT:
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14	UNIT DRAWER IDENTIFIED	C	NC #	N/A	Promec: CLIENT:
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16	CABLES IDENTIFIED	C	NC #	N/A	Promec: CLIENT:
17	SEAL O RING INSTALLED (IF APPLICABLE)	C	NC #	N/A	Promec: CLIENT:
18	FUSES INSTALLED AND OF ADEQUATE SIZE	C	NC #	N/A	Promec: CLIENT:
18	VISUAL INSPECTION	C	NC #	N/A	Promec: CLIENT:
20	CLEAN / VACUUMED	C	NC #	N/A	Promec: CLIENT:

NUQSANA-PROMEC MINING

AGNICO-EAGLE MINES Ltd.
Inspection & Testing Report

ITR Number: AEM-EL-ITR-001
ITR Type: GENERAL
Contract No.: 6515-C-270-007

AGNICO EAGLE

Tag Number:		**Equipment/ Pipe N°:**		**System:**	
Service:		**Function:**		**Purchase Order:**	
Manufacturer:		**Model:**		**Serial Number:**	
Location Dwg :		**Reference Datasheet:**		**Installation Detail Dwg:**	
Reference Datasheet Number:					

Item N°	Inspection Points	C	NC/ NCR #	N/A	Completed By/ Date
21	PANEL AND DOOR CLOSED AND BOLTED	C	NC # _____	N/A	Promec: CLIENT:

Comments

Sign Off			
Promec Signature:		**CLIENT Signature:**	
Date:		**Date:**	

Legend					
C	Conformance	NC	Non Conformance	N/A	Not Applicable
NCR	Non Conformance Report				

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: JEAN-FRANCOIS TREMBLAY Date: 2017-06-29

Review and authorization to fabricate are only for general conformance with the design concept of the Project as expressed in the Contract Documents. Sole responsibility for the accuracy and completeness of this document, including but not limited to dimensions and quantities, remains with the Supplier/Contractor. Agnico Eagle does not warrant the accuracy or completeness of any of the information contained herein, nor does Agnico Eagle authorize or approve any construction means, methods, techniques, sequences or any safety precautions or procedures.

Agnico Eagle No. 6515-C-270-007-141-TES-0002 R: Sub002

DOCUMENT FOR INFORMATION

NUQSANA PROMEC MINING

AGNICO-EAGLE MINES Ltd.
Inspection & Testing Report

ITR Number: AEM-EL-ITR-001
ITR Type: GENERAL
Contract No.: 6515-C-270-007

AGNICO EAGLE

Tag Number:		**Equipment/ Pipe N°:**		**System:**	
Service:		**Function:**		**Purchase Order:**	
Manufacturer:		**Model:**		**Serial Number:**	
Location Dwg :		**Reference Datasheet:**		**Installation Detail Dwg:**	
Reference Datasheet Number:					

Item N°	Inspection Points	C	NC/ NCR #	N/A	Completed By/ Date
1	DEVICE INSTALLED AS PER INSTALLATION DETAILS, LOCATION OR MANUFACTURERS DRAWINGS	C	NC #	N/A	Promec: CLIENT:
2	EQUIPMENT ACESSIBLE AND EASY TO MAINTAIN	C	NC #	N/A	Promec: CLIENT:
3	EQUIPMENT RACK OR CLAMPING DEVICE ADEQUATE (HEIGHT, SOLIDITY ETC.)	C	NC #	N/A	Promec: CLIENT:
4	GROUNDING INSTALLED AND CONNECTED	C	NC #	N/A	Promec: CLIENT:
5	TERMINAL CONNECTION CONNECTED AND TORQUED	C	NC #	N/A	Promec: CLIENT:
6	BREAKER CONNECTIONS CONNECTED AND TORQUED	C	NC #	N/A	Promec: CLIENT:
7	LUG BOLT TORQUE	C	NC #	N/A	Promec: CLIENT:
8	POWER BUS BAR BOLTED AND TORQUED	C	NC #	N/A	Promec: CLIENT:
9	GROUND BUS BAR BOLTED AND TORQUED	C	NC #	N/A	Promec: CLIENT:
10	MEGGER EQUIPMENT	C	NC #	N/A	Promec: CLIENT:
11	MEGGER CABLES	C	NC #	N/A	Promec: CLIENT:
12	HI-POT TEST	C	NC #	N/A	Promec: CLIENT:
13	PANELS IDENTIFIED	C	NC #	N/A	Promec: CLIENT:
14	UNIT DRAWER IDENTIFIED	C	NC #	N/A	Promec: CLIENT:
15	BREAKERS IDENTIFIED	C	NC #	N/A	Promec: CLIENT:
16	CABLES IDENTIFIED	C	NC #	N/A	Promec: CLIENT:
17	SEAL O RING INSTALLED (IF APPLICABLE)	C	NC #	N/A	Promec: CLIENT:
18	FUSES INSTALLED AND OF ADEQUATE SIZE	C	NC #	N/A	Promec: CLIENT:
18	VISUAL INSPECTION	C	NC #	N/A	Promec: CLIENT:
20	CLEAN / VACUUMED	C	NC #	N/A	Promec: CLIENT:

NUQSANA PROMEC MINING

AGNICO-EAGLE MINES Ltd.
Inspection & Testing Report

ITR Number: AEM-EL-ITR-001
ITR Type: GENERAL
Contract No.: 6515-C-270-007

AGNICO EAGLE

Tag Number:		**Equipment/ Pipe N°:**		**System:**	
Service:		**Function:**		**Purchase Order:**	
Manufacturer:		**Model:**		**Serial Number:**	
Location Dwg :		**Reference Datasheet:**		**Installation Detail Dwg:**	
Reference Datasheet Number:					

Item N°	Inspection Points	C	NC/ NCR #	N/A	Completed By/ Date
21	PANEL AND DOOR CLOSED AND BOLTED	C	NC #	N/A	Promec: CLIENT:

Comments

Sign Off			
Promec Signature:		**CLIENT Signature:**	
Date:		**Date:**	

Legend					
C	Conformance	**NC**	Non Conformance	**N/A**	Not Applicable
NCR	Non Conformance Report				

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: Jean-Francois Tremblay Date: 2017-05-02

Review and authorization to fabricate are only for general conformance with the design concept of the Project as expressed in the Contract Documents. Sole responsibility for the accuracy and completeness of this document, including but not limited to dimensions and quantities, remains with the Supplier/Contractor. Agnico Eagle does not warrant the accuracy or completeness of any of the information contained herein, nor does Agnico Eagle authorize or approve any construction means, methods, techniques, sequences or any safety precautions or procedures.

Agnico Eagle No. 6515-C-270-007-141-TES-0013 R: Sub001

DOCUMENT FOR INFORMATION

NUQSANA PROMEC MINING

AGNICO-EAGLE MINES Ltd.
Inspection and Testing Report
(C22498E)

AGNICO EAGLE

Contract Title:	Fuel Tanks Piping Supply and Installation	**Contract No.:**	6515-C-270-007
Subject:	**Equipment Torque**	**ITR No.:**	**AEM-EL-ITR-006**

Torque #: _____ Calibration due Date: _____

Date: _____ By: _____

Equipment #	Power Bus Bar Torque (lbf·ft)	Ground Bus Bar Torque (lbf·ft)	Lug Torque (lbf·ft)	Photos (If applicable)

Promec's Representative Signature _____ Date _____ Client's Representative Signature _____ Date _____

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: JEAN-FRANCOIS TREMBLAY Date: 2017-06-22

Review and authorization to fabricate are only for general conformance with the design concept of the Project as expressed in the Contract Documents. Sole responsibility for the accuracy and completeness of this document, including but not limited to dimensions and quantities, remains with the Supplier/Contractor. Agnico Eagle does not warrant the accuracy or completeness of any of the information contained herein, nor does Agnico Eagle authorize or approve any construction means, methods, techniques, sequences or any safety precautions or procedures.

Agnico Eagle No. 6515-C-270-007-141-TES-0028 R: Sub002

DOCUMENT FOR INFORMATION

NUQSANA-PROMEC MINING

AGNICO-EAGLE MINES Ltd.
Inspection & Testing Report

ITR Number: AEM-IN-ITR-005A
ITR Type: PCR PANEL
Contract No.: 6515-C-270-007

AGNICO EAGLE

Tag Number:		**Equipment/ Pipe N°:**		**System:**	
Service:		**Function:**		**Purchase Order:**	
Manufacturer:		**Model:**		**Serial Number:**	
Location Dwg :		**Reference Datasheet:**		**Installation Detail Dwg:**	
Reference Datasheet Number:					

Item N°	Inspection Points	C	NC/ NCR #	N/A	Completed By/ Date
1	INSTRUMENT TAG ATTACHED	C	NC #	N/A	Promec: CLIENT:
2	CABLE TAG ATTACHED	C	NC #	N/A	Promec: CLIENT:
3	DEVICE INSTALLED AS PER INSTALLATION DETAILS, LOCATION OR MANUFACTURER'S DRAWING	C	NC #	N/A	Promec: CLIENT:
4	EQUIPMENT ACCESSIBLE AND EASY TO MAINTAIN	C	NC #	N/A	Promec: CLIENT:
5	EQUIPMENT RACK OR CLAMPING DEVICE ADEQUATE (HEIGHT, SOLIDITY ETC.)	C	NC #	N/A	Promec: CLIENT:
6	WIRING CORRECT AND PROPERLY LABELED	C	NC #	N/A	Promec: CLIENT:
7	GROUNDING INSTALLED AND CONNECTED	C	NC #	N/A	Promec: CLIENT:
8	CLEAN OUT ENCLOSURE	C	NC #	N/A	Promec: CLIENT:
9	OPENING DOOR ADEQUATE	C	NC #	N/A	Promec: CLIENT:
10	CALIBRATION CERTIFICATE AVAILABLE	C	NC #	N/A	Promec: CLIENT:
11	ELECTRICAL SUPPLY COMPATIBLE WITH SOURCE	C	NC #	N/A	Promec: CLIENT:

Comments

Sign Off			
Promec Signature:		**CLIENT Signature:**	
Date:		**Date:**	

Legend					
C	Conformance	**NC**	Non Conformance	**N/A**	Not Applicable
NCR	Non Conformance Report				

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☒ Complete, no further submission required.

By: LUC SÉNÉCAL Date: 2017-07-10

Review and authorization to fabricate are only for general conformance with the design concept of the Project as expressed in the Contract Documents. Sole responsibility for the accuracy and completeness of this document, including but not limited to dimensions and quantities, remains with the Supplier/Contractor. Agnico Eagle does not warrant the accuracy or completeness of any of the information contained herein, nor does Agnico Eagle authorize or approve any construction means, methods, techniques, sequences or any safety precautions or procedures.

Agnico Eagle No. 6515-C-270-007-141-TES-0009 R: Sub002

DOCUMENT FOR INFORMATION

NUQSANA PROMEC MINING

AGNICO-EAGLE MINES Ltd.
Inspection & Testing Report

ITR Number: AEM-EL-ITR-002
ITR Type: HEATING UNIT
Contract No.: 6515-C-270-007

AGNICO EAGLE

Tag Number:		**Equipment/ Pipe N°:**		**System:**	
Service:		**Function:**		**Purchase Order:**	
Manufacturer:		**Model:**		**Serial Number:**	
Location Dwg :		**Reference Datasheet:**		**Installation Detail Dwg:**	
Reference Datasheet Number:					

Item N°	Inspection Points	C	NC/ NCR #	N/A	Completed By/ Date
1	CHECK FOR PROPER SIZE OF CIRCUIT BREAKERS IN DISTRIBUTION PANEL	C	NC #	N/A	Promec: CLIENT:
2	CHECK FOR PROPER TAGGING AND LABELLING OF ALL PARTS AS SHOWN ON THE DRAWINGS	C	NC #	N/A	Promec: CLIENT:
3	CHECK FOR PROPER OPERATION OF THERMOSTATS AND/OR TEMPERATURE CONTROLLERS	C	NC #	N/A	Promec: CLIENT:
4	FINAL INSPECTION COMPLETE. DEFICIENCY LIST ITEMS CLEARED	C	NC #	N/A	Promec: CLIENT:

Comments

Sign Off			
Promec Signature:		**CLIENT Signature:**	
Date:		**Date:**	

Legend					
C	Conformance	**NC**	Non Conformance	**N/A**	Not Applicable
NCR	Non Conformance Report				

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: Jean-Francois Tremblay Date: 2017-05-02

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Agnico Eagle No. 6515-C-270-007-141-TES-0018 R: Sub001

DOCUMENT FOR INFORMATION

Agnico-Eagle Mines Ltd.
Miscellaneous Field Report

ITR Number : AEM-GE-ITR-006
Contract no. : C22466T / C22498E

SYSTEM:	TAG NO. :	
LOCATION:	AREA:	UNIT:

DATE	ACTIVITY

PROMEC DESIGNATE - SIGNATURE | TITLE | DATE

CLIENT DESIGNATE - SIGNATURE | TITLE | DATE

NUQSANA PROMEC MINING

AGNICO-EAGLE MINES Ltd.

Inspection and Testing Report

(C22498E)

AGNICO EAGLE

Contract Title: Fuel Tanks Piping Supply and Installation
Contract No.: 6515-C-270-007
Subject: Cable to Meg
ITR No.: AEM-EL-ITR-003

Tester #: MTN. 4055 SN 170617552
Date: 7-11 2017
Megger ?/Volts: 1000 Volts

Calibration due Date: 05-07-2018
By: Tres Cal

Cable ID	Origin / Destination	Phase 1/Phase 2	Phase 2/Phase 3	Phase 1/Phase 3	Phase 1 /GND	Phase 2/GND	Phase 3/GND
65 DPS41601-17-P2		OL	OL		OL	OL	
65 DPS41601-17-P3		OL	OL		OL	OL	
65 DPS41601-8-P1		OL	OL		OL	OL	
65 DPS41601-8-P2		OL	OL		OL	OL	
65 DPS 41601-16-P1		OL	OL		OL	OL	
65 DPS 41601-16-P2		OL	OL		OL	OL	
65 DPS 41601-2-P1		OL	OL		OL	OL	
65 DPS 41601-2-P2		OL	OL		OL	OL	
65 DPS 41601-18 -P1		OL	OL		OL	OL	
65 DPS41601-10/12 P1		OL	OL		OL	OL	
65 DPS41601-10/12 P2		OL	OL		OL	OL	
65 DPS41601-19-P1		OL	OL		OL	OL	
65 DPS 41601-20-P1		OL	OL		OL	OL	

Promec's Representative Signature — Date: 7-11 2017

Client's Representative Signature — Date

NUQSANA-PROMEC MINING

AGNICO-EAGLE MINES Ltd.
Inspection and Testing Report
(C22498E)

AGNICO EAGLE

Contract Title:	Fuel Tanks Piping Supply and Installation	**Contract No.:**	6515-C-270-007
Subject:	Cable to Meg	**ITR No.:**	AEM-EL-ITR-003

Tester #: MTD 4055 (SN1706 17552) Calibration due Date: 05-07-2018
Date: 7-11-2017 By: tRescAL
Megger ?/Volts: 1000 Volts

Cable ID	Origin / Destination	Phase 1/Phase 2	Phase 2/Phase 3	Phase 1/Phase 3	Phase 1 /GND	Phase 2/GND	Phase 3/GND
65 DPS 41601-22 P1		OL	OL		OL	OL	
65 DSP 41601-24-P1		OL	OL		OL	OL	
65 DSP 41601-14-P1		OL	OL		OL	OL	
65 DSP 41607-26-P1		OL	OL		OL	OL	
65 DSP 41601-25-P1		OL	OL		OL	OL	
65 DPS 41601-21/23-P1		OL	OL		OL	OL	
65 DPS 41601-							

7-11-2017

Promec's Representative Signature | Date | Client's Representative Signature | Date

NUQSANA PROMEC MINING

AGNICO-EAGLE MINES Ltd.
Inspection and Testing Report
(C22498E)

AGNICO EAGLE

Contract Title: Fuel Tanks Piping Supply and Installation
Contract No.: 6515-C-270-007
Subject: Cable to Meg
ITR No.: AEM-EL-ITR-003

Tester #: MD 4055 (SN170617552)
Date: 6-11-2017
Megger ?/Volts: 1000 Volts

Calibration due Date: 05-07-2018
By: tRESCAL

Cable ID	Origin / Destination	Phase 1/Phase 2	Phase 2/Phase 3	Phase 1/Phase 3	Phase 1 /GND	Phase 2/GND	Phase 3/GND
65 tRF 41601 -P1		OL	OL	OL	OL	OL	OL
65 USD 41603A -P1		OL	OL	OL	OL	OL	OL
65 USD 41603B -P1		OL	OL	OL	OL	OL	OL
65 VSD 41604 A-P1		OL	OL	OL	OL	OL	OL
65 VSD 41604 b -P1		OL	OL	OL	OL	OL	OL
65 DPS 41601 -1/3-P1		OL	OL		OL	OL	
65 DPS 41601-1/3-P2		OL	OL		OL	OL	
65 DPS 41601-5/7-P1		OL	OL		OL	OL	
65 DPS 41601 -5/7 -P2		OL	OL		OL	OL	
65 DPS 41601-08 -P1		OL	OL	OL	OL	OL	OL
65 DPS 41601-9/11-P1		OL	OL		OL	OL	
65 DPS 41601-9/11-P2		OL	OL		OL	OL	
65 DPS 41601 -17-P1		OL	OL		OL	OL	

Promec's Representative Signature — Date: 7-11-2017

Client's Representative Signature — Date

NUQSANA PROMEC MINING

AGNICO-EAGLE MINES Ltd.
Inspection and Testing Report
(C22498E)

AGNICO EAGLE

Contract Title: Fuel Tanks Piping Supply and Installation
Contract No.: 6515-C-270-007
Subject: Cable to Meg
ITR No.: AEM-EL-ITR-003

Tester #: MTP 4055 (SN170617552)
Calibration due Date: 05-07-2018
Date: 18-08-2017
By: tRESCAL
Megger ?/Volts: 1000 Volts

Cable ID	Origin / Destination	Phase 1/Phase 2	Phase 2/Phase 3	Phase 1/Phase 3	Phase 1 /GND	Phase 2/GND	Phase 3/GND
65 DIS41601-P1		OL	OL	OL	OL	OL	OL
65 SPB41601-P1		OL	OL	OL	OL	OL	OL
65 SPB 41601-P2		OL	OL	OL	OL	OL	OL
65 SPB 41601-P3		OL	OL	OL	OL	OL	OL
65 SPB 41601-P4		OL	OL	OL	OL	OL	OL
65 SPB 41601-P5		OL	OL	OL	OL	OL	OL
65 SPB 41601-P6		OL	OL	OL	OL	OL	OL
65 SPB 41601-P7		OL	OL	OL	OL	OL	OL
65 SPB 41601-P8		OL	OL	OL	OL	OL	OL
65SPB 41601-01-P1		OL	OL	OL	OL	OL	OL
65SPB 41601-02-P1		OL	OL	OL	OL	OL	OL
65SPB 41601-05-P1		OL	OL	OL	OL	OL	OL
65SPB41601-06-P1		OL	OL	OL	OL	OL	OL

Promec's Representative Signature — Date: 18-08-2017

Client's Representative Signature — Date

NUQSANA PROMEC MINING

AGNICO-EAGLE MINES Ltd.
Inspection and Testing Report
(C22498E)

AGNICO EAGLE

Contract Title: Fuel Tanks Piping Supply and Installation
Contract No.: 6515-C-270-007
Subject: Cable to Meg
ITR No.: AEM-EL-ITR-003

Tester #: MTP 4055 (SN170617552)
Date: 18-08-2017
Megger ?/Volts: 1000 Volts

Calibration due Date: 05-07-2018
By: tRescal

Cable ID	Origin / Destination	Phase 1/Phase 2	Phase 2/Phase 3	Phase 1/Phase 3	Phase 1 /GND	Phase 2/GND	Phase 3/GND
65 SPB 41602-06-P1A		OL	OL	OL	OL	OL	OL
65 SPB 41601-06 P1B		OL	OL	OL	OL	OL	OL
65 SPB 41601-03 P1		OL	OL	OL	OL	OL	OL
65 SPB 41601-04-P1		OL	OL	OL	OL	OL	OL
65 DPS 41601-15-P1		OL			OL	OL	
65 DPS 41601-6-P1		OL			OL	OL	

Promec's Representative Signature — Date: 18-08-2017

Client's Representative Signature — Date

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: Jean-Francois Tremblay Date: 2017-05-02

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Agnico Eagle No. 6515-C-270-007-141-TES-0010 R: Sub001

DOCUMENT FOR INFORMATION

NUQSANA PROMEC MINING

AGNICO-EAGLE MINES Ltd.
Inspection and Testing Report
(C22498E)

AGNICO EAGLE

Contract Title: Fuel Tanks Piping Supply and Installation
Contract No.: 6515-C-270-007
Subject: Cable to Meg
ITR No.: AEM-EL-ITR-003

Tester #: _____
Date: _____
Megger ?/Volts: _____

Calibration due Date: _____
By: _____

Cable ID	Origin / Destination	Phase 1/Phase 2	Phase 2/Phase 3	Phase 1/Phase 3	Phase 1 /GND	Phase 2/GND	Phase 3/GND

Promec's Representative Signature _____ Date _____

Client's Representative Signature _____ Date _____

Contract Title:	Fuel Tanks Piping Supply and Installation	**Contract No.:**	6515-C-270-007
Subject:	Cable to Meg	**ITR No.:**	AEM-EL-ITR-003

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: Jean-Francois Tremblay Date: 2017-05-02

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Agnico Eagle No. 6515-C-270-007-141-TES-0011 R: Sub001

DOCUMENT FOR INFORMATION

NUQSANA PROMEC MINING

AGNICO-EAGLE MINES Ltd.
Inspection and Testing Report
(C22498E)

AGNICO EAGLE

Contract Title: Fuel Tanks Piping Supply and Installation
Contract No.: 6515-C-270-007
Subject: Continuity Test
ITR No.: AEM-EL-ITR-004

Cable ID	Description	Continuity	Visual	Ident. Origin	Ident. Destination	Same	Date	By

Promec's Representative Signature | Date | Client's Representative Signature | Date

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: Jean-Francois Tremblay Date: 2017-05-02

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Agnico Eagle No. 6515-C-270-007-141-TES-0010 R: Sub001

DOCUMENT FOR INFORMATION

NUQSANA PROMEC MINING

AGNICO-EAGLE MINES Ltd.
Inspection and Testing Report
(C22498E)

AGNICO EAGLE

Contract Title: Fuel Tanks Piping Supply and Installation
Contract No.: 6515-C-270-007
Subject: Cable to Meg
ITR No.: AEM-EL-ITR-003

Tester #: _____
Date: _____
Megger ?/Volts: _____

Calibration due Date: _____
By: _____

Cable ID	Origin / Destination	Phase 1/Phase 2	Phase 2/Phase 3	Phase 1/Phase 3	Phase 1 /GND	Phase 2/GND	Phase 3/GND

Promec's Representative Signature _____ Date _____

Client's Representative Signature _____ Date _____

Contract Title:	Fuel Tanks Piping Supply and Installation	**Contract No.:**	6515-C-270-007
Subject:	Cable to Meg	**ITR No.:**	AEM-EL-ITR-003

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: Jean-Francois Tremblay Date: 2017-05-02

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Agnico Eagle No. 6515-C-270-007-141-TES-0011 R: Sub001

DOCUMENT FOR INFORMATION

AGNICO-EAGLE MINES Ltd.
Inspection and Testing Report
(C22498E)

Contract Title: Fuel Tanks Piping Supply and Installation
Contract No.: 6515-C-270-007
Subject: Continuity Test
ITR No.: AEM-EL-ITR-004

Cable ID	Description	Continuity	Visual	Ident. Origin	Ident. Destination	Same	Date	By

Promec's Representative Signature | Date | Client's Representative Signature | Date

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: Jean-Francois Tremblay Date: 2017-05-02

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Agnico Eagle No. 6515-C-270-007-141-TES-0010 R: Sub001

DOCUMENT FOR INFORMATION

AGNICO-EAGLE MINES Ltd.
Inspection and Testing Report
(C22498E)

Contract Title:	Fuel Tanks Piping Supply and Installation	**Contract No.:**	6515-C-270-007
Subject:	**Cable to Meg**	**ITR No.:**	**AEM-EL-ITR-003**

Tester #: _____ Calibration due Date: _____

Date: _____ By: _____

Megger ?/Volts: _____

Cable ID	Origin / Destination	Phase 1/Phase 2	Phase 2/Phase 3	Phase 1/Phase 3	Phase 1 /GND	Phase 2/GND	Phase 3/GND

Promec's Representative Signature _____ Date _____ Client's Representative Signature _____ Date _____

Contract Title:	Fuel Tanks Piping Supply and Installation	**Contract No.:**	6515-C-270-007
Subject:	**Cable to Meg**	**ITR No.:**	**AEM-EL-ITR-003**

NUQSANA PROMEC MINING

AGNICO-EAGLE MINES Ltd.
Inspection and Testing Report
(C22498E)

AGNICO EAGLE

Contract Title: Fuel Tanks Piping Supply and Installation
Contract No.: 6515-C-270-007
Subject: Continuity Test
ITR No.: AEM-EL-ITR-004

Cable ID	Description	Continuity	Visual	Ident. Origin	Ident. Destination	Same	Date	By
65YL4160003-C1	3c 14	OL	OK	65JB41602	65YL-4160003		6-11-2017	MIKE NOR MAN DIN
65YL4160003-C1	3c 14	OL	OK	"	65YL4160003		6-11-2017	" "
65YL4160013-C1	3c 14	OL	OK	"	65YL4160013		6-11-2017	" "
65YL4160042-C1	3c 14	OL	OK	"	65YL4160042		6-11-2017	" "
65YL4160047-C1	6c 14	OL	OK	"	65YL4160047		6-11-2017	" "
65XS4160039-P1	6c 14	OL	OK	65JB41601	65XS4160039			" "
65XS4160039-C3								
65XS4160039-C2	2c 14	OL	OK	65XS4160039	SCHLCON SC47CC		6-11-2017	" "
65XS4160039-C1	3c 14	OL	OK	PLC4160001	MICROLOAD		6-11-2017	" "
65VSD41604b-C1	3c 14	OL	OK	65JB41602	65VSD41604b		6-11-2017	" "
65VSD41604A-C1	3c 14	OL	OK	65JB41602	65VSD41604A		6-11-2017	" "
65VSD41603b-C1	3c14	OL	OK	" "	65VSD41603b		6-11-2017	" "
65VSD41603-A C1	3c 14	OL	OK	" "	65VSD41603A		6-11-2017	" "
65TT4160012-C1	1PR 16	OL	OK	" "	65TT4160012		6-11-2017	" "
65TT4160002-C1	1PR16	OL	OK	" "	65TT4160002		6-11-2017	" "
65TE4160035-C1	2PR16	OL	OK	65TE4160035	MICROLOAD		6-11-2017	" "

Promec's Representative Signature — Date: 7-11-2017

Client's Representative Signature — Date

NUQSANA PROMEC MINING

AGNICO-EAGLE MINES Ltd.
Inspection and Testing Report
(C22498E)

AGNICO EAGLE

Contract Title: Fuel Tanks Piping Supply and Installation
Contract No.: 6515-C-270-007
Subject: Continuity Test
ITR No.: AEM-EL-ITR-004

Cable ID	Description	Continuity	Visual	Ident. Origin	Ident. Destination	Same	Date	By
65TE4116002 9-C1	2PR 16	OL	OK	65TE4116 0029	MICROLOAD		7-11-2017	MIKE NORMANDIN
65FV4116002 9A-C1	3C 14	OL	OK	65FCV4116 0029	65 FV4116002 9A		7-11-2017	" "
65FV4116002 9B-C1	3C 12	OL	OK	"	65 FV4116002 9B		7-11-2017	" "
65FV4116003 5A C1	3C 14	OL	OK	65FCV4116003 5	65 FV4116003 5A		7-11-2017	" "
65FV4116003 5B-C1	3C 12	OL	OK	"	65 FV4116003 5B		7-11-2017	" "
65HSS 4116003 9-C1	6C 14	OL	OK	PLC 416 01	65JB41601		7-11-2017	" "
65 HSS 4116004 0-C1	6C 14	OL	OK	65JB41602	65HSS 4116004 0		7-11-2017	" "
65 HSS 4116006 0-C1	6C 14	OL	OK	PLC 416 01	65HSS 4116006 0		7-11-2017	" "
65LIT4116000 3-C1	1PR 16	OL	OK	65JB41602	65LIT4116000 3		7-11-2017	" "
65LIT4116001 3-C1	1PR 16	OL	OK	"	65LIT4116001 3		7-11-2017	" "
65LIT4116004 2-C1	1PR 16	OL	OK	"	65LIT4116004 2		7-11-2017	" "
65LIT4116004 7-C1	1PR 16	OL	OK	"	65LIT4116004 7		7-11-2017	" "
65LS 4116004 2-C1	6C 14	OL	OK	"	65LS4116004 2		7-11-2017	" "
65LS4116004 7-C1	6C 14	OL	OK	"	65LS 4116004 7		7-11 2017	" "
65FT4116002 9-C1	2PR 16	OL	OK	65FT4116002 9	MICROLOAD		8-11-2017	" "
65FT4116003 5-C1	2PR 16	OL	OK	65 FT4116003 5	MICROLOAD		8-11-2017	" "

Promec's Representative Signature — Date: 9-11-2017

Client's Representative Signature — Date

NUQSANA PROMEC MINING

AGNICO-EAGLE MINES Ltd.
Inspection and Testing Report
(C22498E)

AGNICO EAGLE

Contract Title: Fuel Tanks Piping Supply and Installation
Contract No.: 6515-C-270-007
Subject: Continuity Test
ITR No.: AEM-EL-ITR-004

Cable ID	Description	Continuity	Visual	Ident. Origin	Ident. Destination	Same	Date	By
65FV4160004-C1	6c 14	OL	OK	65JB41602	65FV4160004		8-11-2017	MIKE NORM AND DIN
65FV4160004P1	3c12	OL	OK	MOV GRF box	65FV 4160004		8-11-2017	" "
65FV4160006-C1	6c-14	OL	OK	65JB41602	65FV4160006		8-11-2017	" "
65FV4160006-P1	3c12	OL	OK	MOV GRF box	65FV4166006		8-11-2017	" "
65FV4160004-C1	6c14	OL	OK	65JB41602	65FV41600 14		8-11-2017	" "
65FV41600 4-P1	3c12	OL	OK	MOV GRF box	65FV41600 14		8-11-2017	" "
65FV41600 6-C1	6c14	OL	OK	65JB41602	65FV41600 16		8-11-2017	" "
65FV41600 6-P1	3c12	OL	OK	MOV GRF box	65FV41600 16		8-11-2017	" "
65FV4160043-C1	6c 14	OL	OK	65JB41602	65FV4160043		8-11-2017	" "
65FV4160048-C1	6c14	OL	OK	"	65FV4160048		8-11-2017	" "
65FQY41600 49-C1	2PR 16	OL	OK	"	65FQY4160049		9-11-2017	" "
65FQY41600 44-C1	2PR 16	OL	OK	"	65FQY4160044		9-11-2017	" "
65FQY41600 29-P1	3C 14	OL	OK	65JB41601	MICROLOAD		9-11-2017	" "
65FQY41600 29-P2	3c 14	OL	OK	"	"		9-11-2017	" "
65FQY41600 29-C2	4PR 16	OL	OK	PLC-416-01	"		9-11-2017	" "
65FCV41600 29-C1	3c 14	OL	OK	65FCV4160029	"		9-11-2017	" "

Promec's Representative Signature — Date: 9-11-2017

Client's Representative Signature — Date

NUQSANA PROMEC MINING

AGNICO-EAGLE MINES Ltd.
Inspection and Testing Report
(C22498E)

AGNICO EAGLE

Contract Title:	Fuel Tanks Piping Supply and Installation	Contract No.:	6515-C-270-007
Subject:	Continuity Test	ITR No.:	AEM-EL-ITR-004

Cable ID	Description	Continuity	Visual	Ident. Origin	Ident. Destination	Same	Date	By
65FCV41600 35-C1	3c 14	OL	OK	65FCV41600 35	MICROLOAD		9-11-2017	MIKE NORMANDIN
65FQY41600 35-C2	4PR 16	OL	OK	PLC 416 601	"		9-11-2017	" "
65FQY41600 35 P1	3c 14	OL	OK	65JB41601	"		9-11-2017	" "
65FQY41600 35 P2	3c 14	OL	OK	"	"		9-11-2017	" "

Promec's Representative Signature	Date	Client's Representative Signature	Date
	9-11-2017		

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: Jean-Francois Tremblay Date: 2017-05-02

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Agnico Eagle No. 6515-C-270-007-141-TES-0011 R: Sub001

DOCUMENT FOR INFORMATION

AGNICO-EAGLE MINES Ltd.
Inspection and Testing Report
(C22498E)

Contract Title: Fuel Tanks Piping Supply and Installation
Contract No.: 6515-C-270-007
Subject: Continuity Test
ITR No.: AEM-EL-ITR-004

Cable ID	Description	Continuity	Visual	Ident. Origin	Ident. Destination	Same	Date	By

Promec's Representative Signature | Date | Client's Representative Signature | Date

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: Jean-Francois Tremblay Date: 2017-05-02

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Agnico Eagle No. 6515-C-270-007-141-TES-0018 R: Sub001

DOCUMENT FOR INFORMATION

NUQSANA PROMEC MINING

Agnico-Eagle Mines Ltd.
Miscellaneous Field Report

ITR Number : AEM-GE-ITR-006
Contract no. : C22466T / C22498E

AGNICO EAGLE

SYSTEM:	TAG NO. :	
LOCATION:	AREA:	UNIT:

DATE	ACTIVITY

PROMEC DESIGNATE - SIGNATURE | TITLE | DATE

CLIENT DESIGNATE - SIGNATURE | TITLE | DATE

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: Jean-Francois Tremblay Date: 2017-05-02

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Agnico Eagle No. 6515-C-270-007-141-TES-0002 R: Sub001

DOCUMENT FOR INFORMATION

NUQSANA PROMEC MINING

AGNICO-EAGLE MINES Ltd.
Inspection & Testing Report

ITR Number: AEM-EL-ITR-001
ITR Type: GENERAL
Contract No.: 6515-C-270-007

AGNICO EAGLE

Tag Number:		**Equipment/ Pipe N°:**		**System:**	
Service:		**Function:**		**Purchase Order:**	
Manufacturer:		**Model:**		**Serial Number:**	
Location Dwg :		**Reference Datasheet:**		**Installation Detail Dwg:**	
Reference Datasheet Number:					

Item N°	Inspection Points	C	NC/ NCR #	N/A	Completed By/ Date
1	DEVICE INSTALLED AS PER INSTALLATION DETAILS, LOCATION OR MANUFACTURERS DRAWINGS	C	NC #	N/A	Promec: CLIENT:
2	EQUIPMENT ACESSIBLE AND EASY TO MAINTAIN	C	NC #	N/A	Promec: CLIENT:
3	EQUIPMENT RACK OR CLAMPING DEVICE ADEQUATE (HEIGHT, SOLIDITY ETC.)	C	NC #	N/A	Promec: CLIENT:
4	GROUNDING INSTALLED AND CONNECTED	C	NC #	N/A	Promec: CLIENT:
5	TERMINAL CONNECTION CONNECTED AND TORQUED	C	NC #	N/A	Promec: CLIENT:
6	BREAKER CONNECTIONS CONNECTED AND TORQUED	C	NC #	N/A	Promec: CLIENT:
7	LUG BOLT TORQUE	C	NC #	N/A	Promec: CLIENT:
8	POWER BUS BAR BOLTED AND TORQUED	C	NC #	N/A	Promec: CLIENT:
9	GROUND BUS BAR BOLTED AND TORQUED	C	NC #	N/A	Promec: CLIENT:
10	MEGGER EQUIPMENT	C	NC #	N/A	Promec: CLIENT:
11	MEGGER CABLES	C	NC #	N/A	Promec: CLIENT:
12	HI-POT TEST	C	NC #	N/A	Promec: CLIENT:
13	PANELS IDENTIFIED	C	NC #	N/A	Promec: CLIENT:
14	UNIT DRAWER IDENTIFIED	C	NC #	N/A	Promec: CLIENT:
15	BREAKERS IDENTIFIED	C	NC #	N/A	Promec: CLIENT:
16	CABLES IDENTIFIED	C	NC #	N/A	Promec: CLIENT:
17	SEAL O RING INSTALLED (IF APPLICABLE)	C	NC #	N/A	Promec: CLIENT:
18	FUSES INSTALLED AND OF ADEQUATE SIZE	C	NC #	N/A	Promec: CLIENT:
18	VISUAL INSPECTION	C	NC #	N/A	Promec: CLIENT:
20	CLEAN / VACUUMED	C	NC #	N/A	Promec: CLIENT:

NUQSANA PROMEC MINING

AGNICO-EAGLE MINES Ltd.
Inspection & Testing Report

ITR Number: AEM-EL-ITR-001
ITR Type: GENERAL
Contract No.: 6515-C-270-007

AGNICO EAGLE

Tag Number:		**Equipment/ Pipe N°:**		**System:**	
Service:		**Function:**		**Purchase Order:**	
Manufacturer:		**Model:**		**Serial Number:**	
Location Dwg :		**Reference Datasheet:**		**Installation Detail Dwg:**	
Reference Datasheet Number:					

Item N°	Inspection Points	C	NC/ NCR #	N/A	Completed By/ Date
21	PANEL AND DOOR CLOSED AND BOLTED	C	NC # _____	N/A	Promec: CLIENT:

Comments

Sign Off			
Promec Signature:		**CLIENT Signature:**	
Date:		**Date:**	

Legend					
C	Conformance	**NC**	Non Conformance	**N/A**	Not Applicable
NCR	Non Conformance Report				

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

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Revise as noted and resubmit next submission and status.

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By: Jean-Francois Tremblay Date: 2017-05-02

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Agnico Eagle No. 6515-C-270-007-141-TES-0002 R: Sub001

DOCUMENT FOR INFORMATION

NUQSANA PROMEC MINING

AGNICO-EAGLE MINES Ltd.
Inspection & Testing Report

ITR Number: AEM-EL-ITR-001
ITR Type: GENERAL
Contract No.: 6515-C-270-007

AGNICO EAGLE

Tag Number:		**Equipment/ Pipe N°:**		**System:**	
Service:		**Function:**		**Purchase Order:**	
Manufacturer:		**Model:**		**Serial Number:**	
Location Dwg :		**Reference Datasheet:**		**Installation Detail Dwg:**	
Reference Datasheet Number:					

Item N°	Inspection Points	C	NC/ NCR #	N/A	Completed By/ Date
1	DEVICE INSTALLED AS PER INSTALLATION DETAILS, LOCATION OR MANUFACTURERS DRAWINGS	C	NC #	N/A	Promec: CLIENT:
2	EQUIPMENT ACESSIBLE AND EASY TO MAINTAIN	C	NC #	N/A	Promec: CLIENT:
3	EQUIPMENT RACK OR CLAMPING DEVICE ADEQUATE (HEIGHT, SOLIDITY ETC.)	C	NC #	N/A	Promec: CLIENT:
4	GROUNDING INSTALLED AND CONNECTED	C	NC #	N/A	Promec: CLIENT:
5	TERMINAL CONNECTION CONNECTED AND TORQUED	C	NC #	N/A	Promec: CLIENT:
6	BREAKER CONNECTIONS CONNECTED AND TORQUED	C	NC #	N/A	Promec: CLIENT:
7	LUG BOLT TORQUE	C	NC #	N/A	Promec: CLIENT:
8	POWER BUS BAR BOLTED AND TORQUED	C	NC #	N/A	Promec: CLIENT:
9	GROUND BUS BAR BOLTED AND TORQUED	C	NC #	N/A	Promec: CLIENT:
10	MEGGER EQUIPMENT	C	NC #	N/A	Promec: CLIENT:
11	MEGGER CABLES	C	NC #	N/A	Promec: CLIENT:
12	HI-POT TEST	C	NC #	N/A	Promec: CLIENT:
13	PANELS IDENTIFIED	C	NC #	N/A	Promec: CLIENT:
14	UNIT DRAWER IDENTIFIED	C	NC #	N/A	Promec: CLIENT:
15	BREAKERS IDENTIFIED	C	NC #	N/A	Promec: CLIENT:
16	CABLES IDENTIFIED	C	NC #	N/A	Promec: CLIENT:
17	SEAL O RING INSTALLED (IF APPLICABLE)	C	NC #	N/A	Promec: CLIENT:
18	FUSES INSTALLED AND OF ADEQUATE SIZE	C	NC #	N/A	Promec: CLIENT:
18	VISUAL INSPECTION	C	NC #	N/A	Promec: CLIENT:
20	CLEAN / VACUUMED	C	NC #	N/A	Promec: CLIENT:

NUQSANA PROMEC MINING

AGNICO-EAGLE MINES Ltd.
Inspection & Testing Report

ITR Number: AEM-EL-ITR-001
ITR Type: GENERAL
Contract No.: 6515-C-270-007

AGNICO EAGLE

Tag Number:		**Equipment/ Pipe N°:**		**System:**	
Service:		**Function:**		**Purchase Order:**	
Manufacturer:		**Model:**		**Serial Number:**	
Location Dwg :		**Reference Datasheet:**		**Installation Detail Dwg:**	
Reference Datasheet Number:					

Item N°	Inspection Points	C	NC/ NCR #	N/A	Completed By/ Date
21	PANEL AND DOOR CLOSED AND BOLTED	C	NC # _____	N/A	Promec: CLIENT:

Comments

Sign Off			
Promec Signature:		**CLIENT Signature:**	
Date:		**Date:**	

Legend					
C	Conformance	NC	Non Conformance	N/A	Not Applicable
NCR	Non Conformance Report				

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: JEAN-FRANCOIS TREMBLAY Date: 2017-06-22

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Agnico Eagle No. 6515-C-270-007-141-TES-0021 R: Sub002

DOCUMENT FOR INFORMATION

NUQSANA PROMEC MINING

AGNICO-EAGLE MINES Ltd.
Inspection & Testing Report

ITR Number: AEM-IN-ITR-001B
ITR Type: FLOW SWITCH
Contract No.: 6515-C-270-007

AGNICO EAGLE

Tag Number:		**Equipment/ Pipe N°:**		**System:**	
Service:		**Function:**		**Purchase Order:**	
Manufacturer:		**Model:**		**Serial Number:**	
Location Dwg :		**Reference Datasheet:**		**Installation Detail Dwg:**	
Reference Datasheet Number:					

Item N°	Inspection Points	C	NC/ NCR #	N/A	Completed By/ Date
1	INSTRUMENT TAG ATTACHED	C	NC #	N/A	Promec: CLIENT:
2	CABLE TAG ATTACHED	C	NC #	N/A	Promec: CLIENT:
3	DEVICE INSTALLED AS PER INSTALLATION DETAILS, LOCATION OR MANUFACTURER'S DRAWING	C	NC #	N/A	Promec: CLIENT:
4	EQUIPMENT ACCESSIBLE AND EASY TO MAINTAIN	C	NC #	N/A	Promec: CLIENT:
5	WIRING CORRECT AND PROPERLY LABELED	C	NC #	N/A	Promec: CLIENT:
6	FLOW ARROW OR ORIENTATION MATCHES PROCESS FLOW	C	NC #	N/A	Promec: CLIENT:
7	PROCESS CONNECTION ADEQUATE (SCREWED OR FLANGED)	C	NC #	N/A	Promec: CLIENT:
8	CALIBRATION CERTIFICATE AVAILABLE	C	NC #	N/A	Promec: CLIENT:
9	ELECTRICAL SUPPLY COMPATIBLE WITH SOURCE	C	NC #	N/A	Promec: CLIENT:
10		C	NC #	N/A	Promec: CLIENT:
11		C	NC #	N/A	Promec: CLIENT:

Comments

Sign Off			
Promec Signature:		**CLIENT Signature:**	
Date:		**Date:**	

Legend					
C	Conformance	**NC**	Non Conformance	**N/A**	Not Applicable
NCR	Non Conformance Report				

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: JEAN-FRANCOIS TREMBLAY Date: 2017-06-22

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Agnico Eagle No. 6515-C-270-007-141-TES-0022 R: Sub002

DOCUMENT FOR INFORMATION

NUQSANA PROMEC MINING

AGNICO-EAGLE MINES Ltd.
Inspection & Testing Report

ITR Number: AEM-IN-ITR-001C
ITR Type: FLOW TRANSMITTER
Contract No.: 6515-C-270-007

AGNICO EAGLE

Tag Number:		**Equipment/ Pipe N°:**		**System:**	
Service:		**Function:**		**Purchase Order:**	
Manufacturer:		**Model:**		**Serial Number:**	
Location Dwg :		**Reference Datasheet:**		**Installation Detail Dwg:**	
Reference Datasheet Number:					

Item N°	Inspection Points	C	NC/ NCR #	N/A	Completed By/ Date
1	INSTRUMENT TAG ATTACHED	C	NC #	N/A	Promec: CLIENT:
2	CABLE TAG ATTACHED	C	NC #	N/A	Promec: CLIENT:
3	DEVICE INSTALLED AS PER INSTALLATION DETAILS, LOCATION OR MANUFACTURER'S DRAWING	C	NC #	N/A	Promec: CLIENT:
4	EQUIPMENT ACESSIBLE AND EASY TO MAINTAIN	C	NC #	N/A	Promec: CLIENT:
5	EQUIPMENT RACK OR CLAMPING DEVICE ADEQUATE (HEIGHT, SOLIDITY ETC.)	C	NC #	N/A	Promec: CLIENT:
6	WIRING CORRECT AND PROPERLY LABELED	C	NC #	N/A	Promec: CLIENT:
7	MINIMUM STRAIGHT PIPE LENGHT UPSTREAM AND DOWNSTREAM REQUIREMENT	C	NC #	N/A	Promec: CLIENT:
8	GROUNDING OF DEVICE	C	NC #	N/A	Promec: CLIENT:
9	FLOW ARROW OR ORIENTATION MATCHES PROCESS FLOW	C	NC #	N/A	Promec: CLIENT:
10	DISPLAY VISIBLE	C	NC #	N/A	Promec: CLIENT:
11	PROCESS CONNECTION ADEQUATE (SCREWED OR FLANGED)	C	NC #	N/A	Promec: CLIENT:
12	CALIBRATION CERTIFICATE AVAILABLE	C	NC #	N/A	Promec: CLIENT:
13	ELECTRICAL SUPPLY COMPATIBLE WITH SOURCE	C	NC #	N/A	Promec: CLIENT:
Comments					

Sign Off			
Promec Signature:		**CLIENT Signature:**	
Date:		**Date:**	

Legend					
C	Conformance	**NC**	Non Conformance	**N/A**	Not Applicable
NCR	Non Conformance Report				

NUQSANA PROMEC MINING	**AGNICO-EAGLE MINES Ltd.** **Inspection & Testing Report** ITR Number: AEM-IN-ITR-002A ITR Type: PUSH BUTTON STATION Contract No.: 6515-C-270-007

AGNICO EAGLE — Vendor Document Status

1 ☐ Proceed to next submission and status.
2 ☐ Proceed with exceptions as noted to next submission and status.
3 ☐ Do not proceed. Revise as noted and resubmit next submission and status.
[✓ 4 Complete, no further submission required.]

By: JEAN-FRANCOIS TREM[illegible] [illegible] Date: 2017-06-29

[illegible]

Agnico Eagle No: 6515-C-270-007-141-TES-0023 • Sub002

DOCUMENT FOR INFORMATION

AGNICO EAGLE

Tag Number:		**Equipment/ Pipe N°:**		**System:**	
Service:		**Function:**		**Purchase Order:**	
Manufacturer:		**Model:**		**Serial Number:**	
Location Dwg :		**Reference Datasheet:**		**Installation Detail Dwg:**	
Reference Datasheet Number:					

Item N°	Inspection Points	C	NC/ NCR #	N/A	Completed By/ Date
1	INSTRUMENT TAG ATTACHED	C	NC # ______	N/A	Promec: CLIENT:
2	CABLE TAG ATTACHED	C	NC # ______	N/A	Promec: CLIENT:
3	DEVICE INSTALLED AS PER INSTALLATION DETAILS, LOCATION OR MANUFACTURER'S DRAWING	C	NC # ______	N/A	Promec: CLIENT:
4	EQUIPMENT ACCESSIBLE AND EASY TO MAINTAIN / OPERATE	C	NC # ______	N/A	Promec: CLIENT:
5	EQUIPMENT RACK OR CLAMPING DEVICE ADEQUATE (HEIGHT, SOLIDITY ETC.)	C	NC # ______	N/A	Promec: CLIENT:
6	WIRING CORRECT AND PROPERLY LABELED	C	NC # ______	N/A	Promec: CLIENT:
7		C	NC # ______	N/A	Promec: CLIENT:
8		C	NC # ______	N/A	Promec: CLIENT:
9		C	NC # ______	N/A	Promec: CLIENT:
10		C	NC # ______	N/A	Promec: CLIENT:
11		C	NC # ______	N/A	Promec: CLIENT:

Comments

Sign Off			
Promec Signature:		**CLIENT Signature:**	
Date:		**Date:**	

Legend					
C	Conformance	**NC**	Non Conformance	**N/A**	Not Applicable
NCR	Non Conformance Report				

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: JEAN-FRANCOIS TREMBLAY Date: 2017-06-22

Review and authorization to fabricate are only for general conformance with the design concept of the Project as expressed in the Contract Documents. Sole responsibility for the accuracy and completeness of this document, including but not limited to dimensions and quantities, remains with the Supplier/Contractor. Agnico Eagle does not warrant the accuracy or completeness of any of the information contained herein, nor does Agnico Eagle authorize or approve any construction means, methods, techniques, sequences or any safety precautions or procedures.

Agnico Eagle No. 6515-C-270-007-141-TES-0024 R: Sub002

DOCUMENT FOR INFORMATION

AGNICO-EAGLE MINES Ltd.
Inspection & Testing Report

ITR Number: AEM-IN-ITR-003A
ITR Type: LEVEL TRANSMITTER
Contract No.: 6515-C-270-007

Tag Number:		**Equipment/ Pipe N°:**		**System:**	
Service:		**Function:**		**Purchase Order:**	
Manufacturer:		**Model:**		**Serial Number:**	
Location Dwg :		**Reference Datasheet:**		**Installation Detail Dwg:**	
Reference Datasheet Number:					

Item N°	Inspection Points	C	NC/ NCR #	N/A	Completed By/ Date
1	INSTRUMENT TAG ATTACHED	C	NC #	N/A	Promec: CLIENT:
2	CABLE TAG ATTACHED	C	NC #	N/A	Promec: CLIENT:
3	DEVICE INSTALLED AS PER INSTALLATION DETAILS, LOCATION OR MANUFACTURER'S DRAWING	C	NC #	N/A	Promec: CLIENT:
4	EQUIPMENT ACCESSIBLE AND EASY TO MAINTAIN	C	NC #	N/A	Promec: CLIENT:
5	EQUIPMENT RACK OR CLAMPING DEVICE ADEQUATE (HEIGHT, SOLIDITY ETC.)	C	NC #	N/A	Promec: CLIENT:
6	WIRING CORRECT AND PROPERLY LABELED	C	NC #	N/A	Promec: CLIENT:
7	NOZZLE IS UNOBSTRUCTED OR ADEQUATE	C	NC #	N/A	Promec: CLIENT:
8	DISPLAY VISIBLE	C	NC #	N/A	Promec: CLIENT:
9	PROCESS CONNECTION ADEQUATE (SCREWED OR FLANGED)	C	NC #	N/A	Promec: CLIENT:
10	CALIBRATION CERTIFICATE AVAILABLE	C	NC #	N/A	Promec: CLIENT:
11	ELECTRICAL SUPPLY COMPATIBLE WITH SOURCE	C	NC #	N/A	Promec: CLIENT:

Comments

Sign Off			
Promec Signature:		**CLIENT Signature:**	
Date:		**Date:**	

Legend					
C	Conformance	**NC**	Non Conformance	**N/A**	Not Applicable
NCR	Non Conformance Report				

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: JEAN-FRANCOIS TREMBLAY Date: 2017-06-22

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Agnico Eagle No. 6515-C-270-007-141-TES-0027 R: Sub002

DOCUMENT FOR INFORMATION

NUQSANA PROMEC MINING

AGNICO-EAGLE MINES Ltd.
Inspection & Testing Report

ITR Number: AEM-IN-ITR-004C
ITR Type: PRESSURE SWITCH
Contract No.: 6515-C-270-007

AGNICO EAGLE

Tag Number:		**Equipment/ Pipe N°:**		**System:**	
Service:		**Function:**		**Purchase Order:**	
Manufacturer:		**Model:**		**Serial Number:**	
Location Dwg :		**Reference Datasheet:**		**Installation Detail Dwg:**	
Reference Datasheet Number:					

Item N°	Inspection Points	C	NC/ NCR #	N/A	Completed By/ Date
1	INSTRUMENT TAG ATTACHED	C	NC #	N/A	Promec: CLIENT:
2	CABLE TAG ATTACHED	C	NC #	N/A	Promec: CLIENT:
3	DEVICE INSTALLED AS PER INSTALLATION DETAILS, LOCATION OR MANUFACTURER'S DRAWING	C	NC #	N/A	Promec: CLIENT:
4	EQUIPMENT ACCESSIBLE AND EASY TO MAINTAIN	C	NC #	N/A	Promec: CLIENT:
5	WIRING CORRECT AND PROPERLY LABELED	C	NC #	N/A	Promec: CLIENT:
6	BLOCK AND BLEED VALVE	C	NC #	N/A	Promec: CLIENT:
7	PROCESS CONNECTION ADEQUATE (SCREWED OR FLANGED)	C	NC #	N/A	Promec: CLIENT:
8	CALIBRATION CERTIFICATE AVAILABLE	C	NC #	N/A	Promec: CLIENT:
9	ELECTRICAL SUPPLY COMPATIBLE WITH SOURCE	C	NC #	N/A	Promec: CLIENT:
10		C	NC #	N/A	Promec: CLIENT:
11		C	NC #	N/A	Promec: CLIENT:

Comments

Sign Off			
Promec Signature:		**CLIENT Signature:**	
Date:		**Date:**	

Legend					
C	Conformance	**NC**	Non Conformance	**N/A**	Not Applicable
NCR	Non Conformance Report				

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: JEAN-FRANCOIS TREMBLAY Date: 2017-06-22

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Agnico Eagle No. 6515-C-270-007-141-TES-0029 R: Sub002

DOCUMENT FOR INFORMATION

AGNICO-EAGLE MINES Ltd.
Inspection & Testing Report

ITR Number: AEM-IN-ITR-006A
ITR Type: On / OFF VALVE
Contract No.: 6515-C-270-007

NUQSANA PROMEC MINING

AGNICO EAGLE

Tag Number:		**Equipment/ Pipe N°:**		**System:**	
Service:		**Function:**		**Purchase Order:**	
Manufacturer:		**Model:**		**Serial Number:**	
Location Dwg :		**Reference Datasheet:**		**Installation Detail Dwg:**	
Reference Datasheet Number:					

Item N°	Inspection Points	C	NC/ NCR #	N/A	Completed By/ Date
1	INSTRUMENT TAG ATTACHED	C	NC #	N/A	Promec: CLIENT:
2	CABLE TAG ATTACHED	C	NC #	N/A	Promec: CLIENT:
3	DEVICE INSTALLED AS PER INSTALLATION DETAILS, LOCATION OR MANUFACTURER'S DRAWING	C	NC #	N/A	Promec: CLIENT:
4	EQUIPMENT ACCESSIBLE AND EASY TO MAINTAIN	C	NC #	N/A	Promec: CLIENT:
5	WIRING CORRECT AND PROPERLY LABELED	C	NC #	N/A	Promec: CLIENT:
6	SS AIR SUPPLY TUBING MINIMUM 3/8"	C	NC #	N/A	Promec: CLIENT:
7	MINIMUM STRAIGHT PIPE LENGHT UPSTREAM AND DOWNSTREAM REQUIREMENT	C	NC #	N/A	Promec: CLIENT:
8	POSITIONER, SOLENOID OR LIMIT SWITCH IS UNDAMAGED	C	NC #	N/A	Promec: CLIENT:
9	FLOW ARROW OR ORIENTATION MATCHES PROCESS FLOW	C	NC #	N/A	Promec: CLIENT:
10	OPERATION BLOCK IN VALVE	C	NC #	N/A	Promec: CLIENT:
11	PROCESS CONNECTION ADEQUATE (SCREWED OR FLANGED)	C	NC #	N/A	Promec: CLIENT:
12	CALIBRATION CERTIFICATE AVAILABLE	C	NC #	N/A	Promec: CLIENT:
13	ELECTRICAL SUPPLY COMPATIBLE WITH SOURCE	C	NC #	N/A	Promec: CLIENT:

Comments

Sign Off			
Promec Signature:		**CLIENT Signature:**	
Date:		**Date:**	

Legend					
C	Conformance	**NC**	Non Conformance	**N/A**	Not Applicable
NCR	Non Conformance Report				