Code No. LIT-1922370
Issued February 1, 2009

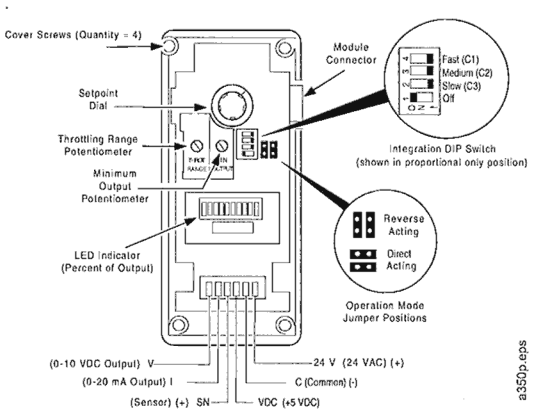
A350P Series

Electronic Proportional Plus Integral Temperature Control

Description

The A350P Electronic Proportional Plus Integral Temperature Control Series has two proportional outputs of 0 to 10 VDC and 0 to 20 mA. This control is used in conjunction with the A99B Series (PTC silicon) Temperature Sensors. Two controls cover a temperature range from -30 to 250°F with an adjustable throttling range (proportional band) of 2 to 30F°.

Proportional plus integral (PI) control is an option to hold setpoint regardless of load shifts on the system. A temperature sensor (A99BC-25C) is included with each A350P control. The S350 Staging Module, D350 Display Module, and Y350R Power Module can be used with the A350P.



Interior of A350P

A350P

Features

- field-selectable proportional only or proportional plus integral control
- plug-together connectors and 35 mm DIN rail mounting eliminate wiring between models and reduce installation costs
- ten segment LED displays percent of output signal
- field-selectable reverse or direct-acting mode
- minimum output adjustable from 0 to 60%
- two models cover a wide setpoint range of -30 to 250°F (-35 to 121°C)

Selection Chart

Code Number	Output Signal	Range	Throttling Range	Sensor (Included)
A350PS-1C	Proportional Voltage: 0 to 10 VDC and Proportional Current: 0 to 20 mA	-30 to 130°F -35 to 55°C	2 to 30F° 1 to 17C°	A99BC-25C
A350PT-1C				None
A350PS-2C		90 to 250°F 30 to 121°C		A99BC-25C

Note: Specify code number from this selection chart, along with additional staging, display, and power modules, and temperature sensing enclosures, if required.

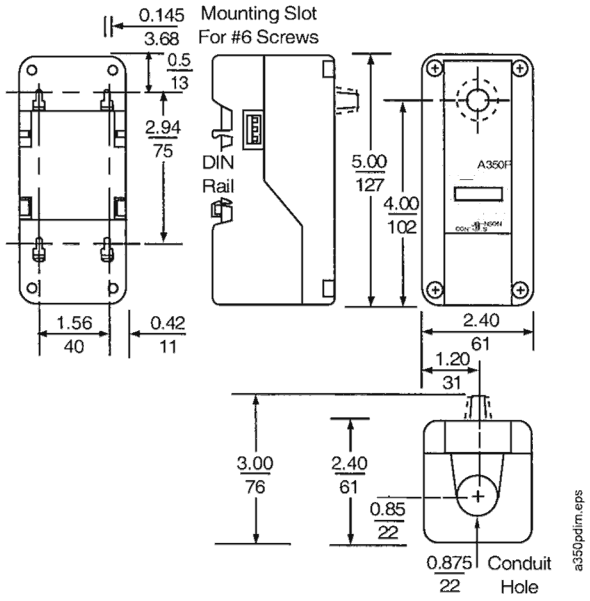
Applications

- modulating heating and cooling valves
- maintain mixed air duct temperature via damper modulation

Technical Specifications

A350P Electronic Temperature Control with Proportional Output		
Supply Voltage [1]	**Transformer**	20 to 30 VAC, 50/60 Hz, Class 2
	Y350R	120/240 VAC, 50/60 Hz
Proportional Output		0 to 10 VDC (550 ohm load minimum) and 0 to 20 mA. (600 ohm load maximum).
Minimum Output		Adjustable from 0 to 60% of the output span
Output Indication		A ten segment LED indicates percentage of output
Control Action		Direct or reverse action is jumper selectable
Power Consumption		3.2 VA
Integration Constant		Three selectable rates fast, medium, slow and an Off position
Ambient Temperature	**Operating**	-30 to 150°F (-34 to 66°C)
	Shipping	-40 to 185°F (-40 to 85°C)
Humidity		0 to 95% RH non-condensing
Case and Cover Material		NEMA 1, high-impact thermoplastic

1. Only one voltage source may be used.



A350P Dimensions, in. (mm)

SHOP DRAWING REVIEW

THIS DRAWING HAS BEEN REVIEWED FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT ONLY. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR ERRORS OR OMISSIONS OR OF MEETING THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS.

X	NO COMMENT
	SEE COMMENTS
	AMEND & RESUBMIT
	REJECTED

Submission No. 1
Project No. 078107
By SC4
Date 7-12-10

DILLON CONSULTING LIMITED

Submittal Letter

Kitnuna Projects Inc.
Box 92
Cambridge Bay, NU X0B 0C0

PROJECT TITLE: Taloyoak Water System Upgrades
PROJECT NUMBER: 04-4403

DATE: _____

CONTRACTORS NAME: Kitnuna Projects Inc.
CONTRACTORS ADDRESS: Box 92
Cambridge Bay, NU X0B 0C0
(867) 983-7515

Please find enclosed the submittals as detailed below for the Taloyoak Water System Upgrades project in accordance with the Construction Contract. A list of deviations, if any, is included on the attached page(s) to this letter. In addition, the names and contact information for the relevant suppliers and manufacturers are included on the attached page(s).

Type of Submittal	Description of Submittal	Quantity Included
Request to use Alternate	Damper control PID Thermostat, drawing 305 calls for appropriate Honeywell PID thermostat	
	Request approval to use Johnson Controls A350PS-1C, see attached product information.	
	It was selected on recommendation from the genset supplier, Frontier, and have been installed already.	

Please confirm receipt of this letter and the submittals identified in writing promptly. If you have any questions don't hesitate to contact me.

Sincerely,

Claudette Dion-St. Jean
Kitnuna Projects Inc.