Code No. LIT-1922540
Issued February 1, 2009

A350S

Electronic Temperature Reset Module (Without Relay)

Description

The A350S Reset Module is designed to raise or lower the setpoint of supply water or supply air temperature based upon a proportionate change in temperature at the master sensor. The A350S has no relay output and must be used with S350 Stage Modules to operate the equipment.

As with all System 350 products, the A350S is housed in a NEMA 1, high-impact plastic enclosure. The modular design provides easy, plug-together connections for quick installation and future expandability.

Features

- modular design enables stage, display, and transformer modules to be purchased and installed as necessary
- plug-together connectors and 35 mm DIN rail mountability eliminate wiring between modules and reduce installation costs
- field-selectable reset direction works in direct or reverse reset applications
- adjustable reset ratio adapts to a variety of weather zones and to the specific heat loss characteristics of most buildings
- adjustable master reset setpoint (M.R.S.) enables the user to select a master (outdoor) sensor temperature starting point for the supply reset ramp
- adjustable minimum and maximum supply temperature permits compliance with equipment manufacturer's specifications

Applications

The A350S Temperature Reset Module has no output and must be used in conjunction with S350 Stage Modules. Use the S350A or S350C for an on/off output or an S350P for a proportional or proportional plus integral output. An A350S system controls a variety of single or multiple stage Heating Ventilation Air Conditioning and Refrigeration (HVAC/R) applications. Typical A350S applications include reset of chilled water supply temperature setpoint, reset of discharge air temperature setpoint, and reset of zone temperature setpoint.



A350S

Selection Charts

Code Number	Item	Description
A350SS-1C **A350SS-2C**	A350S Temperature Reset Module	Reset ratio adjustable from 1:5 to 10:1 Reset ratio adjustable from 1:30 to 1:1

Accessories and Replacement Parts

Code Number	Item	Description
D350AA-1C **D350BA-1C**	Display Module	Fahrenheit Scale Celsius Scale
S350AA-1C **S350AB-1C**	On-Off Stage Module	Fahrenheit Scale Celsius Scale
S350CC-1C	Slave Stage Module	Dual Scale (°F and °C)
S350PQ-1C	Proportional Stage Module	Dual Scale (°F and °C)
Y350R-1C	Power Module	120/240 VAC, 50/60 Hz input; rectified 24V Class 2 output
A99BB-300C **A99BC-25C** [1] **A99BC-300C** [1] **A99BC-500C** **A99BC-1500C**	Temperature Sensors	PTC silicon sensor with PVC cable; cable length 9-3/4 ft (3m) PTC silicon sensor with high temp. silicon cable; cable length 9-3/4 in. (0.25 m) PTC silicon sensor with high temp. silicon cable; cable length 9-3/4 ft (3 m) PTC silicon sensor with high temp. silicon cable; cable length 16-3/8 ft (5 m) PTC silicon sensor with high temp. silicon cable; cable length 49 ft (15 m)
BOX10A-600R [1]	Enclosure	PVC Sensor Enclosure
WEL11A-601R	Immersion Well	For liquid sensing applications
TE-6001-1	Duct Temperature Element Holder	Element holder with hardware for mounting in a duct
TE-6001-4	Room Temperature Element Holder	Element holder with hardware for mounting in a room
T-4000-2139	Cover	Cover for room temperature element holder
SHL10A-603R	Sun Shield	For use with outside sensors in sunny locations
BKT287-1R **BKT287-2R**	DIN Rail Sections	35 x 7.5 mm, 12 in./0.305 m long 35 x 7.5 mm, 36 in./0.914 m long
PLT344-1R	DIN Rail End Clamps	Two end clamps
WHA29A-600R [2] **WHA29A-603R** **WHA29A-604R**	Cable for Remote Mounting of D350 Display Module	3 ft (0.9 m) 25 ft (7.6 m) 50 ft (15.2 m)

1. Included with A350SS-1C and A350SS-2C
2. WHA29A-600R can also be used to daisy chain S350 Stage Modules together.

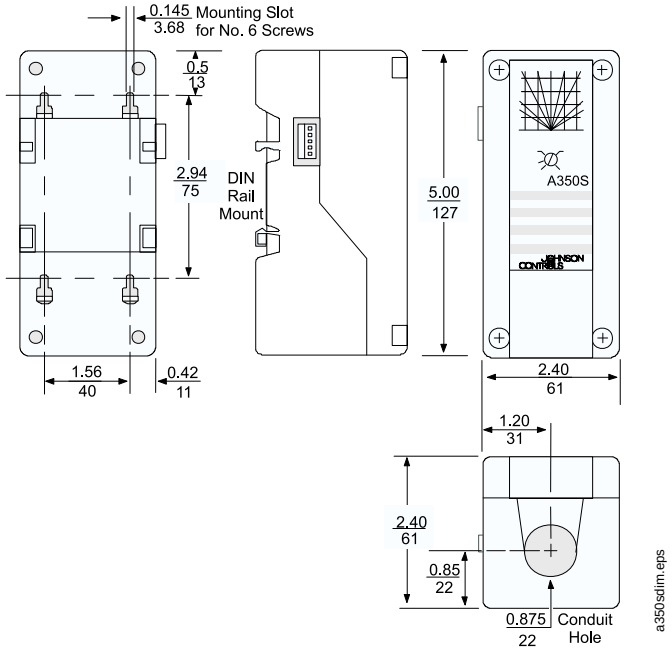
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Electronic Temperature Reset Module (Without Relay) (Continued)

Technical Specifications

A350S Electronic Temperature Reset Control	
Supply Voltage [1]	Transformer: 20 to 30 VAC, Class 2, 50/60 Hz Y350R: 120/240 VAC, 50/60 Hz
Power Consumption	2.5 VA maximum
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, 85°F (29°C) maximum dew point
Reset Action	Selectable: Reverse or direct acting
Reset Ratio Adjustment Range	A350SS-1C: 1:5 to 10:1 (master supply) A350SS-2C: 1:30 to 1:1
Master Reset Setpoint Adjustment Range	30 to 90°F (-1 to 32°C)
Minimum Supply Temperature Adjustment Range	35 to 80°F (2 to 27°C)
Maximum Supply Temperature Adjustment Range	45 to 140°F (7 to 60°C)
Case and Cover Material	NEMA 1, high-impact thermoplastic
Agency Listing	UL Guide No. XAPX and cUL Guide No. XAPX7, File E27734

1. Only one supply voltage source may be used.



A350R Dimensions, in. (mm)

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