

A350E

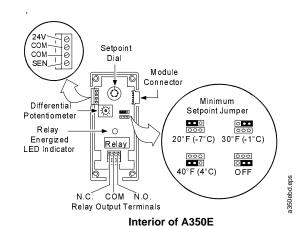
Electronic On/Off Cooling Control

Description

The A350E is an on/off electronic cooling only control with SPDT relay output and LED indication. Besides being a cooling only control, the A350E has two features that differentiate it from the A350A/B Electronic Temperature Control: an adjustable minimum setpoint and short/open circuit protection.

The A350E also has an adjustable differential and an interchangeable temperature sensor. The A350E will accept up to nine S350 Temperature Stage Modules to control a total of ten stages of cooling.

Like all System 350 products, the A350E is housed in a NEMA 1, high-impact plastic enclosure. The modular design provides easy, plug-together connections for quick installation and future expandability.





A350E

Features

- minimum setpoint selection allows greater control over the cooling system
- short circuit and open circuit protection safeguard the equipment by de-energizing the relay and shutting off the equipment if the sensor or sensor wiring fails shorted or open
- wide adjustable differential of 1 to 30F° (0.5 to 17C°) enables the user to match equipment cycle rate and/ or sequencing for a given application
- modular design provides the flexibility to add up to nine S350 Stage Modules, a D350 Temperature Display Module, and a Y350R Power Module
- plug-together connectors and 35 mm DIN rail mounting eliminate wiring between modules, reducing installation costs and wiring errors
- one dual-scale model covers a temperature range of 10 to 65°F (-12 to 18°C)
- interchangeable temperature sensors increase versatility and serviceability

Applications

- frozen/refrigerated food cases
- · space temperature control
- cooling tower control (cooling only)
- · beverage/milk coolers
- chiller staging

Selection Chart

Code Number	Description
	A350E Cooling Control, °F/°C scale, includes A99BC-25C Temperature Sensor

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

Accessories

The base silicon sensor (A99BC-25C, not immersible) is included with each A350E Control.

Technical Specifications

reclinical opecinications					
A350E Electronic Cooling Control					
Temperature Range		10 to 65 °F (-12 to 18 °C)			
Differential Range		1 to 30F° (0.5 to 17C°)			
Minimum Setpoint		Four jumper-selectable settings: 20 °F, 30°F, 40°F, and Off			
Circuit Protection		De-energizes the relay and shuts off the equipment if the sensor shorts or opens			
Supply Voltage ¹	Transformer	20 to 30 VAC, 50/60 Hz, Class 2			
	Y350R	120/240 VAC, 50/60 HZ			
Relays		SPDT enclosed relays, contacts rated at 10 amp, non-inductive (resistive), 1/2 hp 120/240 VAC			
Power Consumption		1.4 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; maximum dew point: 85°F (29°C)			
Case and Cover Material		NEMA 1 high-impact thermoplastic			

Relay Ratings

Voltage AC	120	208/240	
Full Load Amp	9.8	4.9	
Locked Rotor Amp	58.8	29.4	
Non-Inductive Amp	10 at 24/240 VAC		
Pilot Duty	125 VA at 24/240 VAC		

The performance specifications are nominal and conform to acceptable industry standards. For applications at conditions beyond these specifications, consult the local Johnson Controls office.

Johnson Controls, Inc. shall not be liable for damages resulting from misapplication or misuse of its products. © 2009 Johnson Controls, Inc. www.johnsoncontrols.com

^{1.} Only one voltage source may be used.