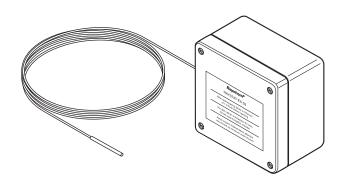


DigiTrace RAYSTAT-EX-03-A ELECTRONIC LINE-SENSING THERMOSTAT



PRODUCT OVERVIEW

The RAYSTAT-EX-03-A electronic line-sensing thermostat provides accurate control for all heating cable types.

The enclosure, electronics, and sensor are approved for use in Division 2 and Zone 1 hazardous locations. The thermostat can be supplied at voltages of 100–277 Vac 50/60 Hz, and has a double-pole switch rated at 16 A. The switch can be configured to provide a dry contact. Temperature setting is accurate via digital thumb wheel switches inside the enclosure.

The thermostat is supplied with a factory-installed 6 ft (2 m) stainless-steel RTD.

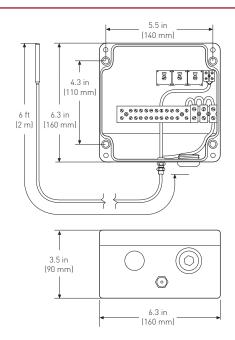
The enclosure is manufactured from high impact-resistant glass-filled polyester offering NEMA 4X, IP66 protection. Two 3/4-inch (19 mm) entries allow the incoming power and heating cable to be connected to the unit.

For pipe temperatures up to 482°F (250°C), the units can be mounted directly on the pipe using the JB-SB-25 support bracket.

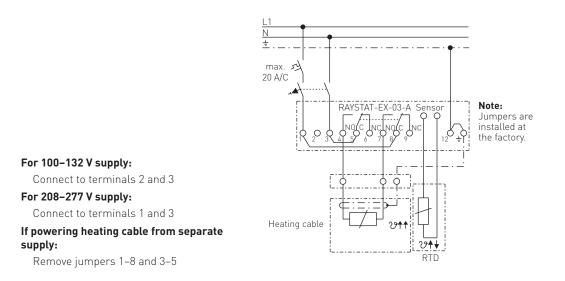
SPECIFICATIONS

Enclosure	• NEMA 4X; IP66
	Electrostatic charge-resistant glass-filled engineering polymers, black
	 Exposed hardware of stainless steel
Entries	Two 3/4-in (19 mm) conduit through holes (one with hole plugged)
Ambient operating range	-40°F to 105°F (-40°C to 40°C)
Set point range	32°F to 930°F (0°C to 499°C)
Switch	DPDT
Switch capacity	16 A (suitable for heating cables on 20 A circuit breakers)
Supply voltage	AC 100–277 V, 50/60 Hz
Accuracy	±1% of set point, minimum 1°C
Deadband	±1% of set point, minimum 1°C
Sensor type	100 Ω platinum RTD
Sensor material	Stainless steel
Sensor length	6 ft (2 m)
Connection terminals	Power supply: 12 AWG (4 mm²)
	Heating cable: 12 AWG (4 mm²)
	Ground: 10 AWG (6 mm²)

DIMENSIONS



TYPICAL WIRING DIAGRAM FOR DIRECT SWITCHING



APPROVALS

Hazardous Locations



Class I, Zone 1, Ex emia IIC T6 Class I, Zone 1, AEx emia IIC T6 Class I, Div. 2, Groups B, C, D Class II, Div. 1 and 2, Groups E, F, G Class III

ORDERING DETAILS

Part description Part number Weight

RAYSTAT-EX-03-A 453609 7.2 lb (3.3 kg)



NORTH AMERICA

Tel: +1.800.545.6258 Fax: +1.800.527.5703 Tel: +1.650.216.1526 Fax: +1.650.474.7711 thermal.info@pentair.com

EUROPE, MIDDLE EAST, AFRICA

Tel: +32.16.213.511 Fax: +32.16.213.603 thermal.info@pentair.com

ASIA PACIFIC

Tel: +86.21.2412.1688 Fax: +86.21.5426.2917 cn.thermal.info@pentair.com WWW.PENTAIRTHERMAL.COM

LATIN AMERICA Tel: +1.713.868.4800 Fax: +1.713.868.2333 thermal.info@pentair.com

Pentair, DigiTrace, and RAYSTAT are owned by Pentair or its global affiliates. All other trademarks are the property of their respective owners. Pentair reserves the right to change specifications without prior notice.

© 2001–2013 Pentair.