

Elexant 3500i Electronic Thermostat



The Raychem Elexant 3500i is a family of compact, full-featured, electronic thermostats for heat tracing control and monitoring in freeze protection and process temperature applications. Designed from a common hardware platform, the Elexant 3500i offers multiple variants with different features to allow the user flexibility in tailoring their heat tracing needs. Available features include: alarm relay, RS-485 and Bluetooth connections, load sensing, ground fault detection, automated heat trace system check, mobile application for wireless configuration, and more. The Elexant 3500i is suitable for hazardous and nonhazardous locations, and can be wall mounted or pipe mounted.

FEATURES

Multiple variants to allow flexibility for different heat-tracing requirements

Options including dry contact alarm relay, RS-485 and Bluetooth communications, load current detection, ground fault detection and trip, as well as the ability to configure as a thermostat or limiter

Power Connection and Thermostat in one kit

250k cycle endurance for long life

Approved for up to 32A and 277Vac

Suitable for extreme environments with an ambient operating temperature from -55°C to 60°C

SPECIFICATIONS

Depth:	3.6 in
NEMA Rating:	4X
Width:	8.1 in

Control Max Current:	32A @ 40°C, derated to 28A @ 50°C and 24A @ 60°C ambient operating temperature
Control Max Voltage:	277 VAC Nominal, 50/60Hz
Max Power Supply Input Wire Size:	#5
Max Ground Terminal Wire Size:	#5
Max Heating Cable Output Wire Size:	#5
Relative Humidity:	0% to 90%, Noncondensating
IP Rating:	IP66
Control Algorithms:	On/Off, Always On, Always Off
Hazardous Area:	Yes
Intrinsically Safe Barriers on RTD Inputs:	Yes
Temperature Control Range:	-67 to 1022 °F
Operating Temperature:	-67 to 140 °F
Temperature Alarm:	-76 to 1112 °F

Table 1/2

Catalog Number	Item Name	Height	Autocycle	Communication	Communication Protocol	Control Relay Type
2000002454	Elexant 3500i-C-W-A	7.2 in		Yes	Modbus RTU	Single-Pole Hybrid
2000002626	Elexant 3500i-C-P-A	11.1 in		Yes	Modbus RTU	Single-Pole Hybrid
2000002924	Elexant 3500i-GF-W-A	7.2 in	24 h	Yes	Modbus RTU	Double-Pole, Hybrid
2000003749	Elexant 3500i-ST-W-A	7.2 in				Single-Pole Hybrid
2000003750	Elexant 3500i-AR-W-A	7.2 in				Single-Pole Hybrid
2000003751	Elexant 3500i-I-W-A	7.2 in	24 h	Yes	Modbus RTU	Double-Pole, Hybrid
2000003757	Elexant 3500i-ST-P-A	11.1 in				Single-Pole Hybrid
2000003758	Elexant 3500i-AR-P-A	11.1 in				Single-Pole Hybrid
2000003759	Elexant 3500i-I-P-A	11.1 in	24 h	Yes	Modbus RTU	Double-Pole, Hybrid
2000003760	Elexant 3500i-GF-P-A	11.1 in	24 h	Yes	Modbus RTU	Double-Pole, Hybrid

Table 2/2

Catalog Number	Item Name	Ground Fault Alarm	Mounting	RS-485 Cable Type	RS-485 Max Cable Length	Safety Limiter
2000002454	Elexant 3500i-C-W-A		Wall	One 2-Wire, Shielded Twisted Pair	4000 ft	Configurable as Limiter
2000002626	Elexant 3500i-C-P-A		Pipe	One 2-Wire, Shielded Twisted Pair	4000 ft	Configurable as Limiter
2000002924	Elexant 3500i-GF-W-A	30 mA min	Wall	One 2-Wire, Shielded Twisted Pair	4000 ft	Configurable as Limiter
2000003749	Elexant 3500i-ST-W-A		Wall			
2000003750	Elexant 3500i-AR-W-A		Wall			
2000003751	Elexant 3500i-I-W-A		Wall	One 2-Wire, Shielded Twisted Pair	4000 ft	Configurable as Limiter
2000003757	Elexant 3500i-ST-P-A		Pipe			
2000003758	Elexant 3500i-AR-P-A		Pipe			
2000003759	Elexant 3500i-I-P-A		Pipe	One 2-Wire, Shielded Twisted Pair	4000 ft	Configurable as Limiter
2000003760	Elexant 3500i-GF-P-A	30 mA min	Pipe	One 2-Wire, Shielded Twisted Pair	4000 ft	Configurable as Limiter

WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at www.nvent.com and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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