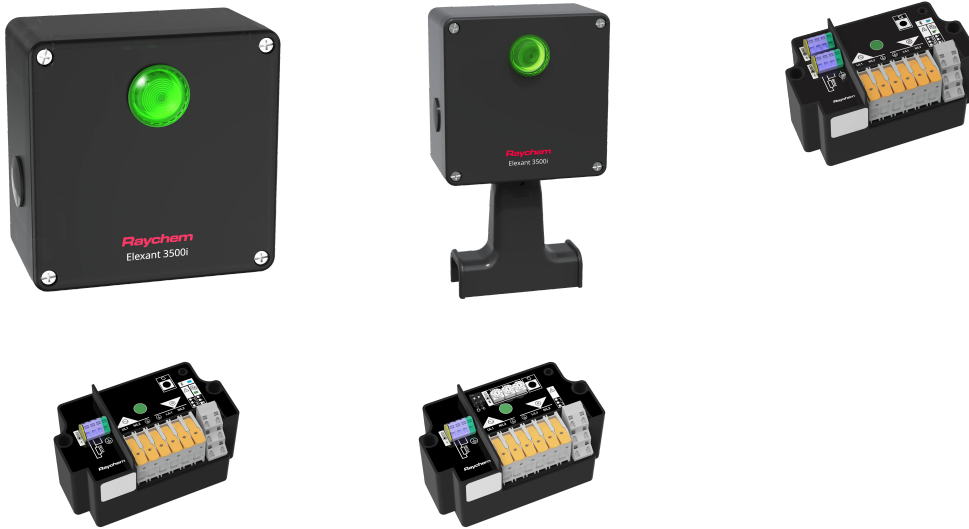


# Elexant 3500i Electronic Thermostat



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

<b>NEMA Rating:</b>	4X
<b>Max Power Supply Input Wire Size:</b>	16 mm <sup>2</sup>
<b>Max Ground Terminal Wire Size:</b>	16 mm <sup>2</sup>
<b>Max Heating Cable Output Wire Size:</b>	16 mm <sup>2</sup>

<b>Control Max Current:</b>	32A @ 40°C, derated to 28A @ 50°C and 24A @ 60°C ambient operating temperature
<b>Depth:</b>	90 mm
<b>Width:</b>	206 mm
<b>Control Max Voltage:</b>	277 VAC Nominal, 50/60Hz
<b>Relative Humidity:</b>	0% to 90%, Noncondensating
<b>IP Rating:</b>	IP66
<b>Control Algorithms:</b>	On/Off, Always On, Always Off
<b>Hazardous Area:</b>	Yes
<b>Intrinsically Safe Barriers on RTD Inputs:</b>	Yes
<b>Temperature Control Range:</b>	-55 to 550 °C
<b>Operating Temperature:</b>	-55 to 60 °C
<b>Temperature Alarm:</b>	-60 to 600 °C

Table 1/2

Catalog Number	Item Name	Height	Autocycle	Communication	Communication Protocol	Control Relay Type
2000002454	Elexant 3500i-C-W-A	183 mm		Yes	Modbus RTU	Single-Pole Hybrid
2000002626	Elexant 3500i-C-P-A	282 mm		Yes	Modbus RTU	Single-Pole Hybrid
2000003750	Elexant 3500i-AR-W-A	183 mm				Single-Pole Hybrid
2000003751	Elexant 3500i-I-W-A	183 mm	24 h	Yes	Modbus RTU	Double-Pole, Hybrid
2000003758	Elexant 3500i-AR-P-A	282 mm				Single-Pole Hybrid
2000003759	Elexant 3500i-I-P-A	282 mm	24 h	Yes	Modbus RTU	Double-Pole, Hybrid

Table 2/2

Catalog Number	Item Name	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	1200 m	Configurable as Limiter
2000002626	Elexant 3500i-C-P-A	Pipe	One 2-Wire, Shielded Twisted Pair	1200 m	Configurable as Limiter
2000003750	Elexant 3500i-AR-W-A	Wall			

Catalog Number	Item Name	Mounting	RS-485 CableType	RS-485 Max Cable Length	Safety Limiter
2000003751	Elexant 3500i-I-W-A	Wall	One 2-Wire, Shielded Twisted Pair	1200 m	Configurable as Limiter
2000003758	Elexant 3500i-AR-P-A	Pipe			
2000003759	Elexant 3500i-I-P-A	Pipe	One 2-Wire, Shielded Twisted Pair	1200 m	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](http://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.

### North America

Tel +1.800.545.6258  
 Fax +1.800.527.5703  
[thermal.info@nvent.com](mailto:thermal.info@nvent.com)

### Europe, Middle East, Africa

Tel +32.16.213.511  
 Fax +32.16.213.604  
[thermal.info@nvent.com](mailto:thermal.info@nvent.com)

### Asia Pacific

Tel +86.21.2412.1688  
 Fax +86.21.5426.3167  
[cn.thermal.info@nvent.com](mailto:cn.thermal.info@nvent.com)

### Latin America

Tel +1.713.868.4800  
 Fax +1.713.868.2333  
[thermal.info@nvent.com](mailto:thermal.info@nvent.com)

Our powerful portfolio of brands:

**RAYCHEM PYROTENAX TRACER NUHEAT**