



ENGLISH

Datasheet

Stock No: 1448680

## RS Pro DIN Rail Temperature Controller



### At a glance

- DIN rail mounted
- PID or ON/OFF control
- Universal input
- Up to 3 outputs
- Digital Input
- RS485 communications option
- Fast configuration
- Clear OLED display
- 22.5mm module width

## Overview

RS Pro DIN rail temperature controller is a behind panel DIN-rail mounted device that's easy to install and fast to setup with an easy to read OLED display.

This device provides an affordable solution where essential temperature controller is required, it offers a universal input and up to 3 outputs.

## Key Features

- Text / Icon matrix display
- Quick setup menu with main configuration parameters
- Thermocouple, PT100 or linear DC sensor input
- Up to 3 outputs; relay or SSR
- Isolated Digital input
- High/low, deviation or band alarms
- 3 button operation
- 3 status LEDs
- Front panel configuration
- RS485 Modbus RTU communications option



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## Specifications

### Input

<b>Thermocouple</b>	J, K, C, R, S, T, B, L, N.
<b>RTD</b>	3 Wire PT100
<b>DC Linear</b>	0 to 20mA, 4 to 20mA, 0 to 50mV, 10 to 50mV, 0 to 5V, 1 to 5V, 0 to 10V, 2 to 10V. Scalable -1999 to 9999, with adjustable decimal point
<b>Accuracy</b>	Thermocouple $\pm 0.25\%$ of full range $\pm 1$ LSD ( $\pm 1^\circ\text{C}$ for thermocouple CJC). PT100 $\pm 0.25\%$ of full range, $\pm 1$ LSD, Linear $\pm 0.2\%$ of full range, $\pm 1$ LSD.
<b>Sampling</b>	4 per second
<b>Impedance</b>	$> 10\text{M}\Omega$ resistive, except DC mA ( $5\Omega$ ) and V ( $47\text{K}\Omega$ )
<b>Sensor Break Detection</b>	$< 2$ seconds (except zero based DC ranges), high alarms activate for T/C, RTD and mV ranges, low alarms activate for mA or V ranges
<b>Digital Input</b>	Reset Alarm, Control enable/disable, Auto/Manual control, Tune start/stop. Volt Free or TTL compatible, 24VDC

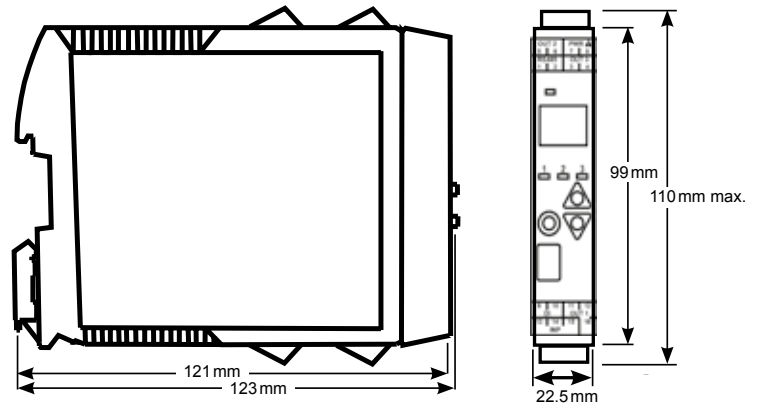
### Outputs & Options

<b>Relay</b>	SPST Form A relay; current capacity 2A at 250VA. $> 150,000$ operations at rated voltage/current, resistive load
<b>SSR</b>	Drive capability $> 10\text{V DC @ } 20\text{mA}$
<b>Serial Communications</b>	2 Wire RS485, 1,200 to 38,400 baud, Modbus RTU

### Operating and Environmental

<b>Temperature &amp; RH</b>	0 to $55^\circ\text{C}$ ( $-20$ to $80^\circ\text{C}$ storage), 20% to 95% RH non-condensing
<b>Altitude</b>	$< 2000\text{m}$
<b>Power Supply</b>	100 to 240V 50/60Hz (mains powered version) 24V DC/AC $+10\%/-15\%$ , AC 50/60Hz (low voltage version)
<b>Enclosure Protection</b>	IP20
<b>Standards</b>	CE
<b>EMI</b>	Complies with EN61326 (Susceptibility & Emissions)
<b>Safety Considerations</b>	Complies with EN61010-1 & UL61010-1 Pollution Degree 2, Installation Category II
<b>Weight</b>	0.16kg excluding packaging (0.23kg including packaging)
<b>Communications</b>	RS485 Modbus RTU communication option

## Dimensions



## Ordering

Stock Number	Supply Voltage	Number Outputs	Communications
<b>1448680</b>	110-240V ac	1 x C/O Relay, 1 x Relay	Not fitted
<b>1448681</b>	110-240V ac	1 x C/O Relay, 1 x SSR, 1 x Relay	Not fitted
<b>1448682</b>	110-240V ac	1 x C/O Relay, 1 x SSR, 1 x Relay	RS485 Comms
<b>1448677</b>	24V ac/dc	1 x C/O Relay, 1 x Relay	Not fitted
<b>1448678</b>	24V ac/dc	1 x C/O Relay, 1 x SSR, 1 x Relay	Not fitted
<b>1448679</b>	24V ac/dc	1 x C/O Relay, 1 x SSR, 1 x Relay	RS485 Comms