Datasheet
Stock No: 1448681

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

Specifications

Input

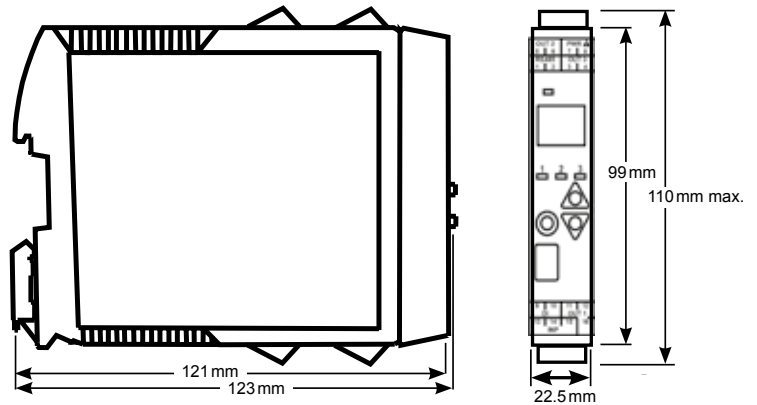|	
Thermocouple	J, K, C, R, S, T, B, L, N.
RTD	3 Wire PT100
DC Linear	0 to 20mA, 4 to 20mA, 0 to 50mV, 10 to 50mV, 0 to 5V, 1 to 5V, 0 to 10V, 2 to 10V. Scalable -1999 to 9999, with adjustable decimal point
Accuracy	Thermocouple ±0.25% of full range ±1 LSD (±1°C for thermocouple CJC). PT100 ±0.25% of full range, ±1LSD, Linear±0.2% of full range, ±1LSD.
Sampling	4 per second
Impedance	>10MΩ resistive, except DC mA (5Ω) and V (47KΩ)
Sensor Break Detection	<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
Digital Input	Reset Alarm, Control enable/disable, Auto/Manual control, Tune start/stop. Volt Free or TTL compatible, 24VDC

Outputs & Options

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

Operating and Environmental

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

Dimensions

Ordering

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