Temperature Controller multicomp PRO

Features

- Wide operating Supply Range 24V to 240V AC/DC.
- Two analog outputs of 0 to 10V DC.
- Sensor Fault detection (open/short) indication through LED's as well as Analog outputs.
- LED Indications for power ON and relay ON status display.
- Adjustable wide temperature range from -50°C to 300°C through DIP switches.
- Auto/Manual reset mode selectable through DIP switch.
- Relay Normal/Inversion mode selectable through DIP switch.
- High load switching capacity of output up to 10A.

Specification

| Parameters	MP008416
Supply Voltage	24V to 240V AC/ DC (±15%)
Supply Frequency	50/60Hz
Power Consumption	For AC <5 VA For DC approx. 1W Max.
Device Characteristics	
Max Lead Resistance Compensated in 3 wire Pt-100 Sensor	10Ω per Lead
Max Error in 2 wire Sensor	2.6°C/Ω
Temperature Trip Accuracy	±1°C
Temperature Drift	Max 0.05°C/°C
Temperature Ranges	-50°C to 50°C, 0°C to 100°C, 100°C to 200°C, 200°C to 300°C
Set Point	0%-20%-40%-60%-80%-100%
Hysteresis	2%-5%-8%-11%-14%-17%-20%
Sensor Fault	Open and Short (Relay OFF)
Sensor Fault Detection Time	<500 ms
Sensor Fault Recovery Time	1.8 to 2 sec.
Output Characteristics	
Contact Arrangement	1 C/O
Contact Ratings	10A @ 250V AC / 30V DC, 4KV Isolation between Coil & Contact.
Utilization Category	AC-15: 3A/250V AC
Response Time(Trip Delay)	min 600 ms to 1 sec
Analog Output Details	
Measured Point (Y1)	(0-10) VDC ± 200 mV
Set Point (Y2)	(0-10) VDC ± 100 mV
In case of sensor Fault (Open/Short) Measured Point output (Y1) is 12VDC.	

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Page <1>   17/03/23   V1.0

Temperature Controller

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| Ambient Conditions	
Operating Temperature	-10°C to +55°C
Storage Temperature	-15°C to +60°C
Relative Humidity	5 to 85 % RH (non condensing)
Degree of Protection	IP 20 for terminals & IP 40 for Enclosure
Max. Altitude	2000 m
Pollution Degree	II
Type of Insulation	Reinforced

Selection Of Temperature Range & Mode

1 2 3 4

- -50 to 50°C
- 0 to 100°C
- 100 to 200°C
- 200 to 300°C

1 2

Relay Normal
Relay Inversion

3

Auto Mode
Manual Mode

4
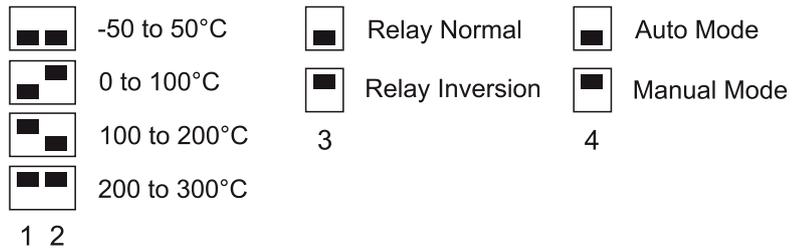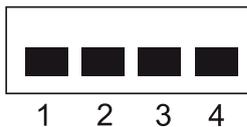
Function Diagram

Connection Diagram

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Page <2>   17/03/23   V1.0

Temperature Controller

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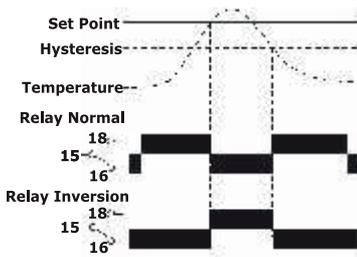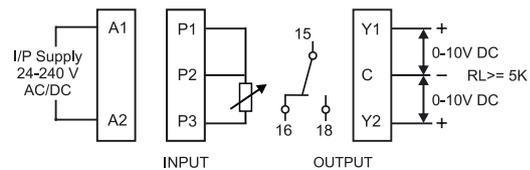
Mechanical Dimensions

Dimensions : Millimetres
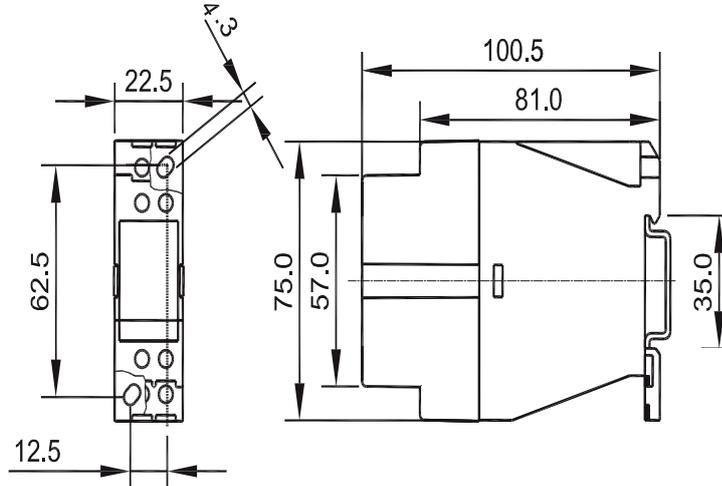
Terminal Torque & Capacity
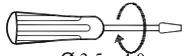
Ø 3.5....4.0mm	0.6 N.m (5.3 Lb.in) Terminal screw - M3
	1 x 0.5...6mm^2 Solid Wire
WG	1 x 20 to 10

Part Number Table

Description	Part Number
Temperature Controller, 1CO Relay O/P, -50°C to 300°C	MP008416

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