

Taishio

Taishio RTD DIN Rail Temperature Transmitter - TS1605P

Features

- PT100, Cu100, Cu53, Ni100, Ni120
- User output trim (zero and span)
- USB PC configuration
- Live data can be viewed on an Android phone or tablet
- Sensor burn out detection



Specifications @ 20°C

SENSOR INPUT SPECIFICATIONS @20°C RTD		
Type	Range	Accuracy/ Stability
PT100 (IEC)	(-200 to 850) °C	0.2°C + (°0.05% of reading) Plus sensor error
PT100 0.391	(-200 to 630) °C	
PT100 0.392	(-200 to 630) °C	
PT100 0.393	(-200 to 630) °C	
Cu53	(-40 to 180) °C	
Cu100	(-80 to 260) °C	
Ni100	(-70 to 180) °C	
Ni120	(-70 to 180) °C	
Excitation current		660 uA
Maximum lead resistance	2 or 3 wire	20 Ω
Thermal stability		± 0.02 °C / °C

OUTPUT SPECIFICATIONS @20°C		
Type/ Function	Range/ Description	Accuracy/ Stability/ Notes
Two wire current	(4 to 20) mA	(mA output /2000) or 5 uA (Whichever is the greater)
Thermal drift	Zero at 20°C	2 uA /°C
Maximum output current	21.5 mA	In high burnout condition
Minimum output current	< 3.9 mA	In low burnout condition
Loop voltage effect		0.2 uA / V
Maximum output load	[(V supply – 10)/20] KΩ	700 Ω @ 24 V DC
Loop supply	(10 to 30) V DC	SELV
Power		< 1 W full power
Thermal stability		± 2 uA/ °C

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USER PUSH BUTTON INTERFACE

Function	Description	
Active range	Range 4 mA and 20 mA points against live input	
User trim	Adjust at maximum and minimum input range value	Offset (4 mA) and span (20 mA) adjustment

GENERAL

Function	Description
Response time	500 ms to 70% of final value
Start-up time	8 s
Warm-up time	120 s to full accuracy
Default configuration	PT100 (0 to 100) °C, upscale burnout
LED (red)	If mA output < -0.1% or > 100.1 % LED ON
Protection	Reverse connection

ENVIRONMENTAL

Function	Description
Ambient temperature	Operating (-30 to 70) °C Storage (-40 to 85) °C
Ambient humidity	Operating/Storage (10 to 90) %RH non-condensing
Protection requirement	Device must be installed in an enclosure offering >IP65 Protection
USB configuration ambient	(10 to 30) °C

MECHANICAL

Function	Description
Dimensions	12.5 mm width, 56.4 mm depth from rail, 90 mm height
Enclosure	DIN rail mount
Material	Polymide 6.6 self-extinguishing UL94-HB: Grey
Connections	Screw terminals 2.5 mm wire maximum
Weight	60 g approximate