Signal conditioning

RTD-HEAD

RTD INPUT IN-HEAD TRANSMITTER



- Field Configurable RTD Type & Input Range
- Linearisation of Input
- High Noise Immunity
- High Accuracy
- Low Cost

Description

The RTD-HEAD is a low cost, high accuracy 4-20mA temperature transmitter mounted in a DIN standard housing.

The unit accepts an input from a resistance thermometer type sensor and outputs a 4-20mA signal proportional to the required temperature range. The range required is user selectable using the on-board push button switch.

The unit can be configured for zero and span as well RTD type using the fitted push button switch.

Another useful feature is the provision of a large central hole in the unit which allows up to 4mm diameter RTD's to be withdrawn and replaced without removing the transmitter or field wiring.

General specifications

Input Types PT100, PT500 or PT1000 Resistance Thermometer

Recommended Operating Conditions

Output Current4-20mAOutput Resistance0-750 Ω at 24V input

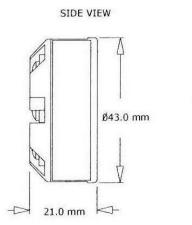
Environmental Conditions

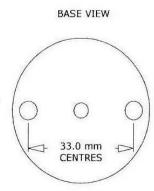
Storage Temperature Operating Ambient Relative Humidity -40 to 90 °C -20 to 70 °C 0 to 95 % RH



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Parameter	Min	Тур	Max	Comments		
Supply Voltage	8V	24V	30V			
Output Current	3.8mA		22mA	Current Limited		
Accuracy		±0.1ºC	±0.2ºC			
Output Linearity Error			±0.1%			
Temp Coefficient			±0.01ºC/ºC			
Time Constant (10-70%)		500ms				
Operating Ambient	-20ºC		70ºC			
Relative Humidity	0%		95%	Non-condensing		
EMC	BS EN61326					
Notes	tes Absolute maximum ratings indicate sustained limits beyond which damage t					
	device may occu	device may occur.				
	Device is protect	Device is protected against reverse polarity connection.				
	Accuracy figures	Accuracy figures based on 24V loop supply, 10Ω loop resistance, and an ambient				
	20ºC.					





Installation data		
Mounting	In Head	
Orientation	Any	
Conductor size	0.5-4.0mm	
Insulation Stripping	10mm	
Weight	Approx 26g	
Screw Terminal Torque	0.4Nm max	

1.	Output Channel +ve
2.	Output Channel -ve
5.	Input Channel +ve
4.	Input Channel -ve
3.	RTD 3 rd Wire

Please supply:			
Part Number:	II-RTDHEAD-RLBA-A-9-000		
RTD Type:	PT100, 500 or 1000		
Temperature Range:	e.g. 0-500ºC		
Sensor Break:	Upscale or Downscale		



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