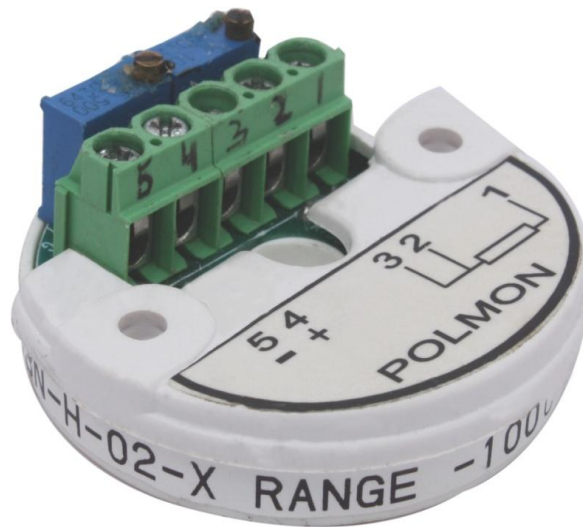


LOOP POWERED TEMPERATURE TRANSMITTER

LPT03N



POLMON offers Loop powered Head mount Temperature Transmitter (Model: LPT03N) for Industrial Temperature measurement Applications. The 4-20mA output is temperature linearized for RTD Pt100. It can be mounted in Sensor Head includes Zero & Span for error calibration at site.

Features

- Two wire, Non isolated, Loop supply 7.5-32V DC
- 3 Wire, RTD Pt100 (Alpha: 0.00385) DIN43760 temperature linearized output
- Zero & Span Calibration facility
- Reverse Polarity Protection
- Safety open sensor breakdown current limit to 27mA

Applications

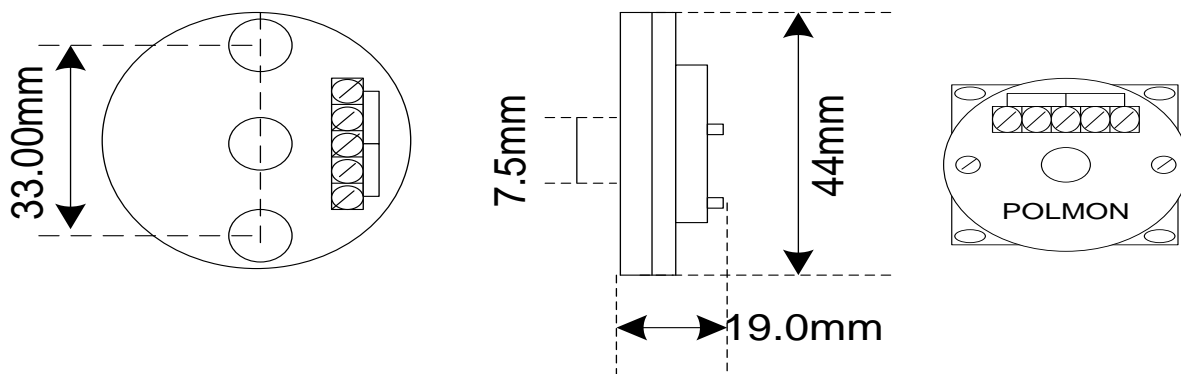
- PLC based Temperature Measurement
- Data logging

Specifications

Technical	
Model No	LPT03N
Input	Sensor: Pt100 ($\alpha=0.00385$), 3 Wire connections Range: -50°C to 200°C / -100°C to 200°C / -150°C to 150 °C / -50 to 50 °C / 0°C to 200 °C / -50°C to 150 °C (Optional ranges Available) Sensor Current: 800uA
Monitoring	Sensor break detection Up Scale: 27mA Down Scale: 2.2mA
Calibration	Zero : -100°C Span : 200°C Zero, Span (Fine adjustment) : $\pm 10\%$
Output	Current : 4-20mA Current Limitation: - 27mA Permissible Load: 620 Ω @24VDC, 25mA R Load max = $(V - 7.5) / 0.025$ - R wiring
Accuracy	Linearity: $\pm 0.1\%$ of Span Temperature influence: $\pm 0.6\%$ of Span /25 °C Supply Voltage influence: $\pm 0.02\%$ of Span/V (typical @ 24V) Sensor wire influence: $\pm 0.005\%$ of Span/ Ω
Isolation	No
Power Supply	
Input Supply	7.5V to 32V
Physical	
Enclosure	ABS Plastic
Mounting	DIN B-head (Dia 44 x 22mm)
Weight	50g
Environmental	
Operating Temperature	10-50°C
Humidity	10-95% RH, Non-condensing

Ordering Information for LPT03N			
LPT03N	X	XX	X
Model No	Enclosure type	Input type	Future use
PT100	H – Head Mount	01 – RTD Pt100, $\Omega=0.00385$, -50°C to 200°C, 3wire	
		02 – RTD Pt100, $\Omega=0.00385$, -100°C to 200°C, 3wire	
		03 – RTD Pt100, $\Omega=0.00385$, -150°C to 150°C, 3wire	
		04 – RTD Pt 100, $\Omega=0.00385$, -50°C to 50°C, 3wire	
		05 – RTD Pt 100, $\Omega=0.00385$, 0°C to 200°C, 3wire	
		06 – RTD Pt 100, $\Omega=0.00385$, -50°C to 150°C, 3wire	
		07 – RTD Pt 100, $\Omega=0.00385$, -30°C to 200°C, 3wire	
		08 – RTD Pt 100, $\Omega=0.00385$, 0°C to 150°C,3wire	
		09 – RTD Pt 100, $\Omega=0.00385$, -50°C to 120°C,3wire	
		10 – RTD Pt 100, $\Omega=0.00385$, -120°C to 110°C,3wire	
		11 – RTD Pt 100, $\Omega=0.00385$, -30°C to 150°C,3wire	
		12 – RTD Pt 100, $\Omega=0.00385$, 0°C to 250°C,3wire	
		13 – RTD Pt 100, $\Omega=0.00385$, -20°C to 80°C,3wire	
		14 – RTD Pt 100, $\Omega=0.00385$, -50°C to 350°C,3wire	
		15 – RTD Pt 100, $\Omega=0.00385$, 0°C to 120°C,3wire	
		16 – RTD Pt 100, $\Omega=0.00385$, -100°C to 400°C,3wire	
		N – RTD Pt 100, $\Omega=0.00385$, Non Standard*, 3wire	

MECHANICAL DRAWING OF LPT03N



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All specifications are subject to change without notice.
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