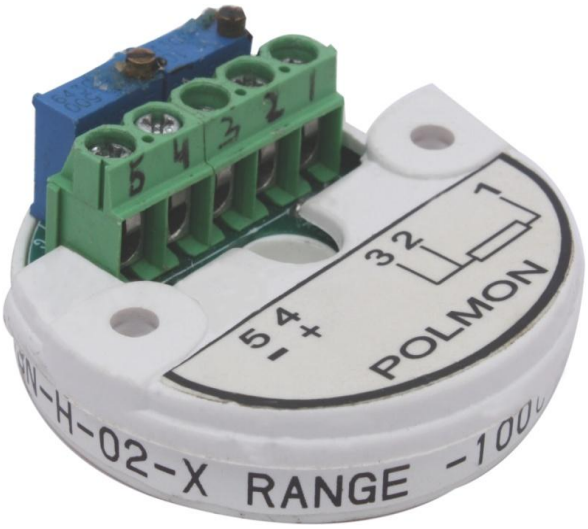
LOOP POWERED TEMPERATURE TRANSMITTER

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

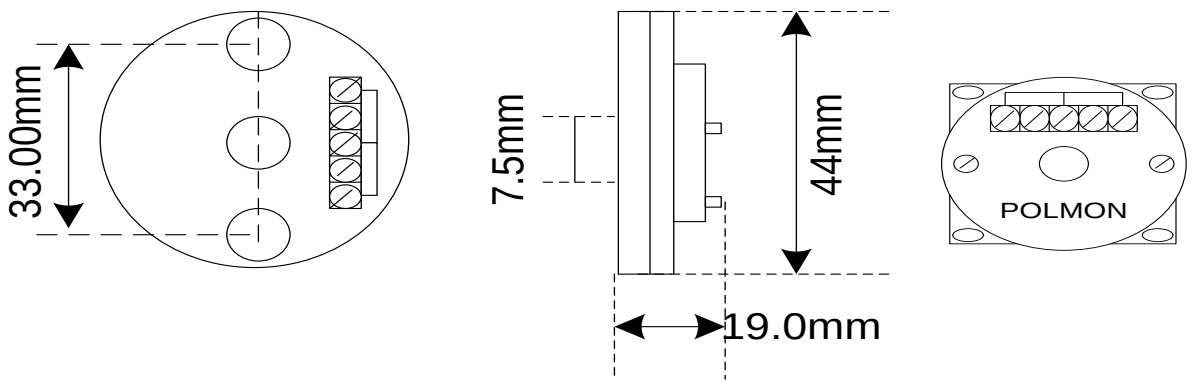
Specifications

Technical	
Model No	LPT03N
Input	Sensor: Pt100 (α=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) : ± 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: ± 0.1% of Span
	Temperature influence: ± 0.6% of Span /25 °C
	Supply Voltage influence: ± 0.02% of Span/V (typical @ 24V)
	Sensor wire influence: ± 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, Ω=0.00385, -50°C to 200°C, 3wire	
		02 – RTD Pt100, Ω=0.00385, -100°C to 200°C, 3wire	
		03 – RTD Pt100, Ω=0.00385, -150°C to 150°C, 3wire	
		04 – RTD Pt 100, Ω=0.00385, -50°C to 50°C, 3wire	
		05 – RTD Pt 100, Ω=0.00385, 0°C to 200°C, 3wire	
		06 – RTD Pt 100, Ω=0.00385, -50°C to 150°C, 3wire	
		07 – RTD Pt 100, Ω=0.00385, -30°C to 200°C, 3wire	
		08 – RTD Pt 100, Ω=0.00385, 0°C to 150°C,3wire	
		09 – RTD Pt 100, Ω=0.00385, -50°C to 120°C,3wire	
		10 – RTD Pt 100, Ω=0.00385, -120°C to110°C,3wire	
		11 – RTD Pt 100, Ω=0.00385, -30°C to 150°C,3wire	
		12 – RTD Pt 100, Ω=0.00385, 0°C to 250°C,3wire	
		13 – RTD Pt 100, Ω=0.00385, -20°C to 80°C,3wire	
		14 – RTD Pt 100, Ω=0.00385, -50°C to 350°C,3wire	
		15 – RTD Pt 100, Ω=0.00385, 0°C to 120°C,3wire	
		16 – RTD Pt 100, Ω=0.00385, -100°C to 400°C,3wire	
		N – RTD Pt 100, Ω=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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