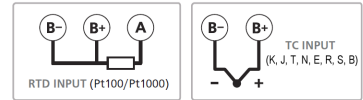
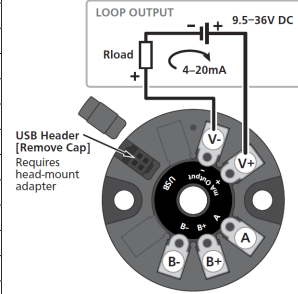


TXHU Head Mounting Universal Input 4~20mA Transmitter

The TXHU range of low-cost, loop powered, microprocessor based linearised transmitters have, as standard, a universal input that accepts RTD (Pt100 or Pt1000) and Thermocouple (Types K, J, T, N, E, R, S, B) inputs. The transmitters can be supplied pre-ranged to suit your application requirements or can be easily configured using the **TX-USB** configuration kit (see page 86). Simply install the software (which is available for free download from our website), connect the USB configuration module and plug the lead into the transmitter. The software will then provide the necessary prompts.



Technical Details (Common)	
Output	2-wire, 4~20mA (loop powered)
Power Supply	9.5-36V DC
Supply Voltage Sensitivity	< ±0.005%/V FSO
Output Load Resistance	700Ω at 24V DC (50Ω/V above 9.5V DC)
Maximum Output Current	Limited to < 28mA (emission & immunity)
Accuracy	< ±0.03% FSO typical
Ambient Drift	< ±0.003%/°C FSO typical
Noise Immunity	125dB CMRR average (2.0kV DC limit)
R.F. Immunity	<1% effect FSO typical
Response Time	400ms typical (10-90% 300ms typical)
Sensor Break Output Drive	Function high upscale/low downscale
USB Programmable Zero	0 to ±99% of the span
Operating Temperature	-20°C to +65°C (-4°F to +149°F)
Storage Temperature	-20°C to +100°C (-4°F to +212°F)
Operating Humidity	5-85% RH max (non-condensing)
Dimensions	44mm (W) x 23mm (H) x 44mm (D)
EMC Compliance	Emissions (EN 61326); Immunity (EN 61326); Safety (EN 61010-1)



RTD Input Specifications	
Input	Pt100 or Pt1000 DIN 3-wire type (2-wire can be used with offset calibration)
Sensor Current	0.15mA nominal
Lead Wire Resistance	Pt100: 10Ω/wire max.
	Pt1000: 5Ω/wire max. 0.02% FSO offset error per Ω of lead resistance
Accuracy	≤ 0.3°C
USB Programmable Span	-200°C to +850°C (-328°F to +1562°F)
Linearity (Pt100)	0.02% FSO for span inputs ≤ +200°C (+392°F)
	0.1% FSO for span inputs ≤ +850°C (+1562°F)
Linearity (Pt1000)	0.02% FSO for span inputs ≤ +200°C (+392°F)
	0.2% FSO for span inputs ≤ +520°C (+968°F)

TX-USB Configuration Kit for Head Mounting Transmitters
See page 86 for further details

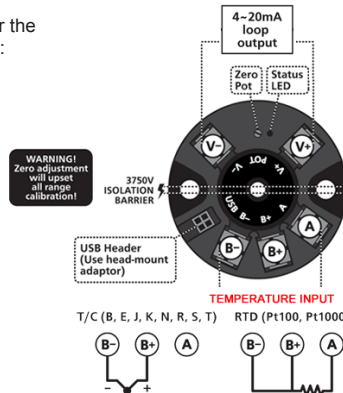
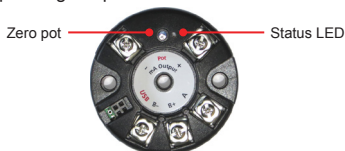
Thermocouple Input Specifications	
Thermocouple Types	K, J, T, N, E, R, S, B
Input Impedance	1MΩ min
Thermocouple Lead Resistance	100Ω max
Cold Junction Compensation	-20°C to +65°C (-4°F to +149°F)
CJC Error	< ±2°C
Accuracy	Types K, J, T, N, E: < ±2°C
	Types R, S, B: < ±3°C
Temperature Drift	Types K, J, T, N, E: < ±0.05°C
	Types R, S, B: < ±0.2°C

Order Code (example)	Thermocouple Example TXHU-K-(0-600 °C)	Pt100 Example TXHU-P3-(0-150 °C)
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TXHUI Isolated Head Mounting Universal Input 4~20mA Transmitter

The specification of the TXHUI transmitter is as per the TXHU above, with the following additional features:

- Zero span pot
- LED status indicator
- Improved Thermocouple input accuracy
Types K, J, T, N, E: < ±1°C
Types R, S, B: < ±2°C
- Isolation test voltages between input/output
3750V AC for 1 minute
- Operating temperature: -20°C to +85°C



Order Code (example)	Thermocouple Example TXHUI-K-(0-600 °C)	Pt100 Example TXHUI-P3-(0-150 °C)
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