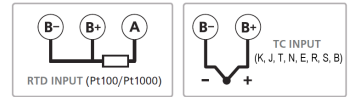
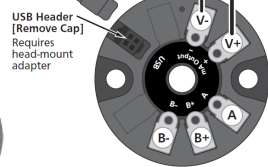
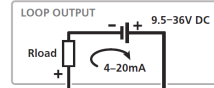


### TXHU Head Mounting Universal Input 4~20mA Transmitter

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



DIN Rail Adaptor also available

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

Thermocouple Input Specifications	
<b>Thermocouple Types</b>	K, J, T, N, E, R, S, B
<b>Input Impedance</b>	1MΩ min
<b>Lead Resistance</b>	100Ω max
<b>Cold Junction Compensation</b>	-20°C to +65°C (-4°F to +149°F)
<b>CJC Error</b>	< ±0.2°C
<b>Accuracy</b>	Types K, J, T, N, E: < ±0.2°C Types R, S, B: < ±0.3°C
<b>Temperature Drift</b>	Types K, J, T, N, E: < ±0.05°C Types R, S, B: < ±0.2°C



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

DIN Rail Adaptor	
order code	TX-DIN

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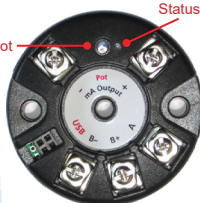
### TXHUI Isolated Head Mounting Universal Input 4~20mA Transmitter

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



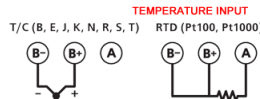
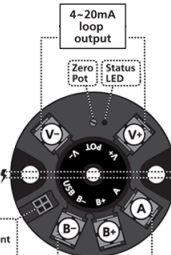
DIN Rail Adaptor also available



**WARNING!**  
Zero adjustment will upset all range calibration!

3750V ISOLATION BARRIER

USB Header (Use head-mount adaptor)



DIN Rail Adaptor	
order code	TX-DIN

order code	Thermocouple Example TXHUI-K-(0-600°C)	Pt100 Example TXHUI-P3-(0-150°C)
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