

Q2-L/Q2-LX



Universal Programmable 2-wire Transmitters



Q2-L/Q2-LX are universal, isolated 2-wire transmitters for temperature and other measurement applications. They combine competitive pricing, functionality and simple configuration. Useful error correction functions improve the accuracy.

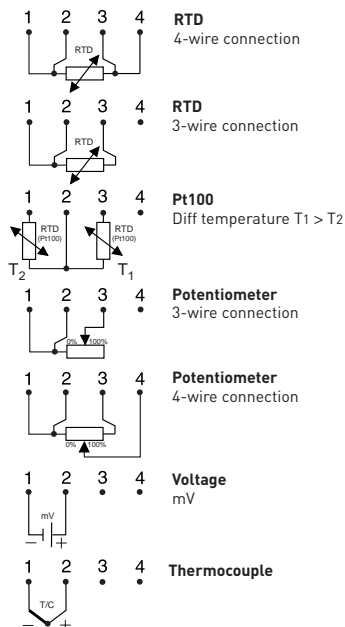
- Fully universal, linearized and isolated
- Accepts RTD, T/C, mV and Ω
- Sensor error and system (sensor/transmitter) error correction for highest total accuracy
- Full access to all features while in operation
- NAMUR compliant
- Consistent sensor break function
- Simplified loop check-up with calibration output
- Test output without breaking the loop (Q2-L)

Specifications:

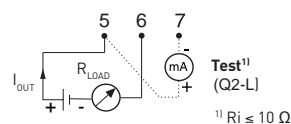
Input RTD	3-, 4-wire connection
Pt100 ($\alpha=0.00385$)	-200 to +1000 °C / -328 to +1832 °F
Pt1000 ($\alpha=0.00385$)	-200 to +200 °C / -328 to +392 °F
PtX $10 \leq X \leq 1000$ ($\alpha=0.00385$)	Upper range depending on X-value
Pt100 ($\alpha=0.003902$)	-200 to +1000 °C / -328 to +1832 °F
Pt100 ($\alpha=0.003916$)	-200 to +1000 °C / -328 to +1832 °F
Ni100 ¹⁾ , Ni120 ²⁾	-60 to +250 °C / -76 to +482 °F
Ni1000 ¹⁾	-100 to +150 °C / -148 to +302 °F
Cu10 ³⁾	-200 to +260 °C / -328 to +500 °F
Input Potentiometer/resistance	3-, 4-wire connection. 0 to 2000 Ω
Input Thermocouples	Types B, C, E, J, K, L, N, R, S, T, U
Input mV	-10 to +500 mV
Sensor failure	User definable output
Adjustments-Zero	Any value within range limits
Adjustments-Minimum spans	
Pt100, Pt1000, Ni100, Ni1000	10 °C / 18 °F
Potentiometer	10 Ω
T/C, mV	2 mV
Output	4-20 / 20-4 mA, temperature linear
Operating temperature	-20 to +70 °C / -4 to +158 °F
Galvanic isolation	1500 VAC, 1 min
Power supply	Q2-L 7.5 to 36 VDC
	Q2-LX 8 to 30 VDC
Intrinsic safety (Mounting in safe area)	
Q2-LX ATEX:	II (1) G [EEx ia] IIC
Q2-LX FM:	IS Class I-III, DIV 1, GP A-G
Q2-LX CSA:	Class I, Groups A-D; Class II, Groups E-G; Class III
Typical accuracy	± 0.1 % of span
Mounting	Rail acc. to DIN EN50022, 35 mm

¹⁾ DIN 43760 ²⁾ Edison No. 7 ³⁾ Edison No. 15

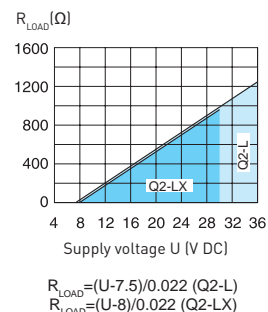
Input connections



Output connections



Output load diagram



Dimensions

