

Q10



Analog Adjustable 3-wire Transmitters



Q10 is a multirange 3-wire temperature transmitter with Pt100 or Pt1000 input and 0-10 V output. Main applications are in the HVAC sector, where the control systems often require 0-10 V input signals. Q10 is designed for high reliability and good industrial performance. The “low profile” housing is extremely durable and facilitates easy connections and adjustments.

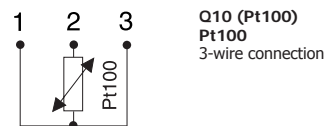
- 0-10 V output
- Rangeable with solder pads and potentiometers
- Temperature linear output
- Selectable sensor break function
- Short-circuit protected output
- Polarity protected power supply
- Easy wiring, large center hole
- Moulded electronics for high protection

Specifications:

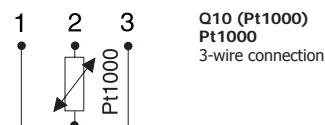
	Q10 (Pt100)	Q10 (Pt1000)
Input	Pt100 ¹⁾ , 3-wire connection	Pt1000 ¹⁾ , 3-wire connection
Maximum lead resistance	11 Ω/wire	11 Ω/wire
Sensor break	Upscale (>11 V), Downscale (0 V)	Upscale (>11 V), Downscale (0 V)
Adjustments		
Span	50/100/150/200 °C 100/200/300/400 °F	50/100/150/200 °C 100/200/300/400 °F
Fine adjustment	±10 %	±10 %
Zero	-50 to +50 °C -60 to +120 °F	-50 to +50 °C -60 to +120 °F
Output	0-10 V, 3-wire connection	0-10 V, 3-wire connection
Minimum load	10 kΩ	10 kΩ
Short-circuit protection	Yes	Yes
Operating Temperature	-40 to +85 °C / -40 to +185 °F	-40 to +85 °C / -40 to +185 °F
Linearization	Temperature linear output	Temperature linear output
Galvanic isolation	No	No
Power Supply	15 to 30 VDC (polarity protected)	15 to 30 VDC (polarity protected)
Typical accuracy	±0.15 % of temperature span	±0.15 % of temperature span
Connection head	DIN B or larger	DIN B or larger

¹⁾ IEC 60751, α=0.00385

Input connections

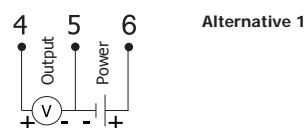


Q10 (Pt100)
Pt100
3-wire connection

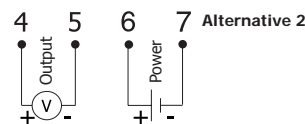


Q10 (Pt1000)
Pt1000
3-wire connection

Output & power supply connections



Alternative 1



Alternative 2

Dimensions

