

# 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.

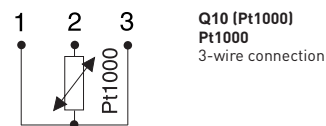
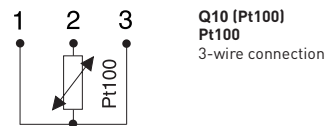
- 0-10 V output
- Rangeable with solder pads and potentiometers
- Temperature linear output
- Selectable sensor break function
- Short-circuit protected output
- Polarity protected power supply
- Easy wiring, large center hole
- Moulded electronics for high protection

### Specifications:

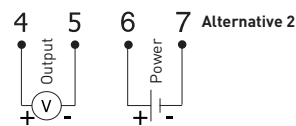
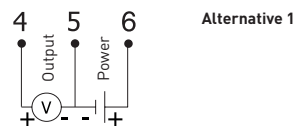
	Q10 (Pt100)	Q10 (Pt1000)
<b>Input</b>	Pt100 <sup>1)</sup> , 3-wire connection	Pt1000 <sup>1)</sup> , 3-wire connection
Maximum lead resistance	11 Ω / wire	11 Ω / wire
<b>Sensor break</b>	Upscale (>11 V), Downscale (0 V)	Upscale (>11 V), Downscale (0 V)
<b>Adjustments</b>		
Span	50/100/150/200 °C 100/200/300/400 °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
<b>Output</b>	0-10 V, 3-wire connection	0-10 V, 3-wire connection
Minimum load	10 kΩ	10 kΩ
Short-circuit protection	Yes	Yes
<b>Operating Temperature</b>	-40 to +85 °C / -40 to +185 °F	-40 to +85 °C / -40 to +185 °F
<b>Linearization</b>	Temperature linear output	Temperature linear output
<b>Galvanic isolation</b>	No	No
<b>Power Supply</b>	15 to 30 VDC (polarity protected)	15 to 30 VDC (polarity protected)
Current consumption	12 mA	12 mA
<b>Typical accuracy</b>	±0.15 % of temperature span	±0.15 % of temperature span
<b>Connection head</b>	DIN B or larger	DIN B or larger

<sup>1)</sup> IEC 60751, α=0.00385

### Input connections



### Output & power supply connections



### Dimensions

