

APAQ-3LPT

Analog Adjustable 3-wire Transmitters

APAQ-3LPT



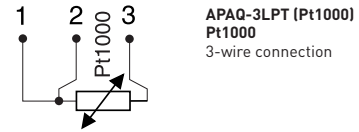
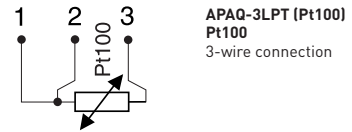
APAQ-3LPT is a multirange 3-wire temperature transmitter with Pt100 or Pt1000 input and 0-10 V output. Main applications are in the HVAC sector, where the control systems often require 0-10 V input signals. APAQ-3LPT is designed for high reliability and good industrial performance.

- 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

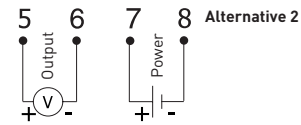
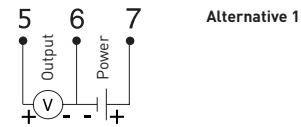
Specifications:

| | APAQ-3LPT (Pt100) | APAQ-3LPT (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 | -20 to +70 °C / -4 to +158 °F | -20 to +70 °C / -4 to +158 °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) |
| Current consumption | 12 mA | 12 mA |
| Typical accuracy | ±0.15 % of temperature span | ±0.15 % of temperature span |
| Mounting | Rail acc. to DIN EN50022, 35 mm | Rail acc. to DIN EN50022, 35 mm |

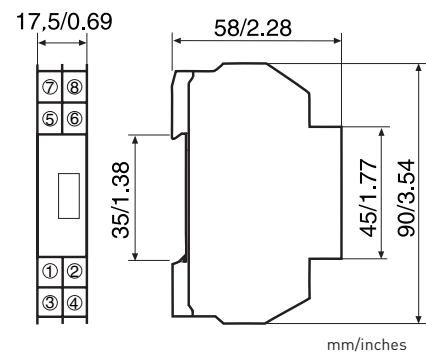
Input connections



Output & power supply connections



Dimensions



Ordering information

| | |
|--------------------|------------|
| APAQ-3LPT (Pt100) | 70AP3L0001 |
| APAQ-3LPT (Pt1000) | 70AP3L0002 |
| Configuration | 70CAL00001 |

¹⁾IEC 60751, α=0.00385