

Mineral Insulated Transmitter

- Scalable from -58...+662°F with programming kit
- Bendable probe
- Zero point and span adjustment with programming kit
- Output signal 4 ... 20mA or 20 ... 4mA
- Thermoplastic housing



About

The P62 is a compact, programmable temperature transmitter equipped with a mineral-insulated (MgO) probe and an IP67-rated overmolded casing. Designed for reliability and precision, it connects via an M12 connector, making it an ideal solution for industrial environments. Reverse polarity protected and available as 4...20mA or 20...4mA.

Applications

- ✓ Generators
- ✓ Compressors
- ✓ HVAC-R
- ✓ CNC machines
- ✓ Skid Packagers
- ✓ Test Benches
- ✓ More

Build Your Part Number

Series P62

Example: P62L1D3T1AB1C1

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|---------------|
| Series |
| P62 |

| | |
|----------------------------------|---|
| Probe Length - select one | |
| L1 | 100mm |
| L2 | 150mm |
| L4 | 250mm |
| L5 | 350mm |
| L6 | 500mm |
| L9 | 750mm |
| L7 | 1000mm |
| LX | Custom - please specify under part number; Example: LX = 67mm |

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| Probe Diameter - select one | |
| D3 | 3mm |
| D5 | 6mm |

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| Range -58 ...+662°F - select one | |
| | 0...302°F factory calibrated default |
| T1 | Note: can be scaled by user with PSRC1 configuration kit (see page 6) Note: from zero point to full span, minimum tolerance = 68°F |
| XX | Use "X...XXX" for custom factory set range (Ex: ex: -0...+125°F / ex: -32...+95°F / ex: +25...400°F) Please inform range below part number Note: from zero point to full span, minimum tolerance = 68°F |

| | | | |
|-----------------------------------|------------|---------------|------------------|
| Output Signal - select one | | Supply | |
| A | 4 ... 20mA | 24 | (5.5 ... 32) VDC |
| Y | 20 ... 4mA | 24 | (5.5 ... 32) VDC |

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| Probe break - select one | |
| B1 | Auto default to 3.6mA |
| B2 | Auto default to 21mA |

| | |
|-----------------------------------|-----------------------|
| Short Circuit - select one | |
| C1 | Auto default to 3.6mA |
| C2 | Auto default to 21mA |

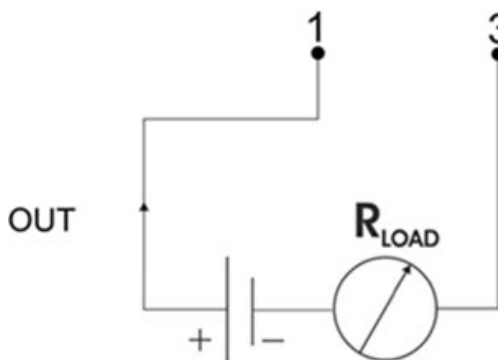
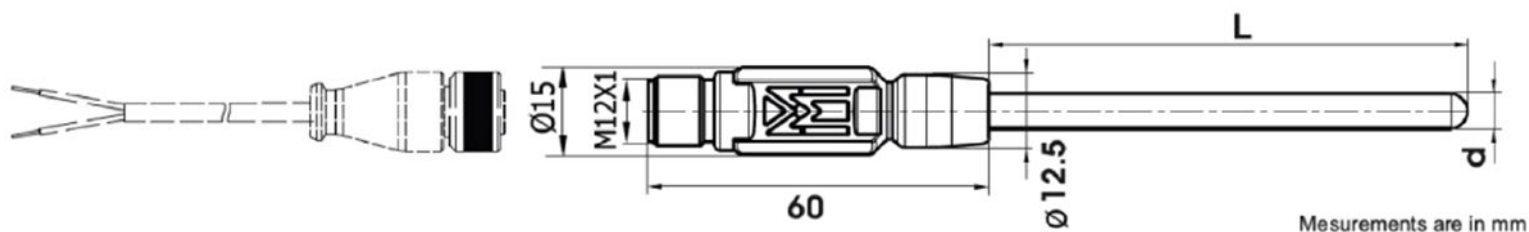
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|---|--|
| Mating Electrical Connection Assembly - optional; will be quoted as a separate line item | |
| Part# | |
| PSE1 | M12x1, 5 pole - straight with cable gland (field wireable) |
| PSE2 | M12x1, 5 pole - straight with 1 meter PUR cable |
| PSE3 | M12x1, 5 pole - straight with 3 meter PUR cable |
| PSE4 | M12x1, 5 pole - straight with 1 meter PUR shielded cable |
| PSE5 | M12x1, 5 pole - straight with 3 meter PUR shielded cable |
| PSE6 | M12x1, 5 pole - 90° (field wireable) |
| PSE7 | M12x1, 5 pole - 90° with 1 meter PUR shielded cable |
| PSE8 | M12x1, 5 pole - 90° with 3 meter PUR shielded cable |

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| Range Configuration Kit - optional; will be quoted as a separate line item; see page 4 | |
| Part# | |
| PSRC1 | To be used with a PC and windows operating system |

Technical Parameters

| Technical Parameters | | |
|----------------------|---|---|
| Accuracy | Accuracy | Max value between $\pm 32.18^\circ$ and $\pm 0.1\%$ of span (class A up to 572°f) |
| | Temp. influence deviation from 68°F | Max value between $\pm 32.54^\circ\text{F} / 77^\circ\text{F}$ and $\pm 0.3\%$ of span/ 77°F |
| | Long term stability | Max 0.1% of span per year |
| | Minimum span | 68°F |
| | Error compensation | $\pm 41^\circ\text{F}$ over two points |
| | Response time | <3.5 seconds for 3mm diameter probes <13 seconds for 6mm diameter probes |
| | Input filter (time to reach 90% of signal) | Configurable from 0.4 ... 9.4 seconds |
| | Zero point and span adjustment | By $\pm 9^\circ\text{F}$ at each end (with configuration kit) |
| Electrical | Power supply | 5.5 ... 32 VDC polarity protected |
| | Output signal | 4...20mA 20...4mA |
| | Sensor current | $\sim 100 \mu\text{A}$ |
| | Connection | M12x1, 4 – pole |
| | Sensor open (break) indication | Output signal will default to 21mA in accordance to NAMUR NE43 Can be downscaled to 3.6mA with configuration kit |
| | Short circuit indication | Output signal will default to 3.6mA in accordance to NAMUR NE43 Can be to 21mA upscaled to 21mA with configuration kit |
| | Isolation in-out | Non-isolated |
| | Load | Max load 840Ω @ 24 VDC [Resistance load = (Voltage supply – 5.5) / 0.022] |
| | Range configurability | From $-58...+230^\circ\text{F}$ with P60 configuration kit |
| | Inverse-polarity protection | Yes |
| Environmental | Measurement temperature range | Standard $-58 ... 662^\circ\text{F}$ |
| | Electronics range | $-40 ... 185^\circ\text{F}$ electronic board |
| | Protection | IP67 |
| | Humidity | 0 ...100% (noncondensing) |
| EMC | In accordance to | EN 61326-1 :2013 (CE) |
| | In accordance to | BS EN 61326-1 :2013 (UKCA) |
| Mechanical | Probe | AISI 316L |
| | Probe bending radius | 3 X probe diameter (except for probe length 30mm) |
| | Probe diameter | 3 mm 6 mm |
| | Process connection | AISI 316L |
| | Housing | Thermoplastic ($-40...+185^\circ\text{F}$) |

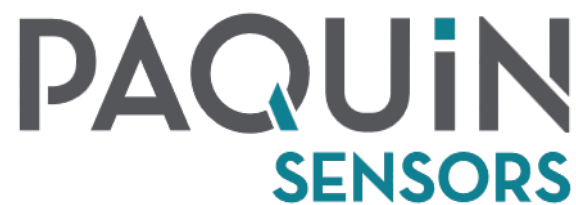
Dimensions (mm)



PSRC1 Range Configurator Kit

| Technical Parameters | | |
|--------------------------------|------------------------------|---------------------------------------|
| Communication Interface | Connect to PC by USB | No additional power source required |
| | Compatible operating systems | Windows 7,8,10 (32 or 64 bit edition) |
| | Free space on PC | 50 Mbytes |
| | PC port | 1x USA 1.1 or later type A port |
| Electrical | Galvanic isolation | 2KVdc/1s |
| Environmental | Operating temperature | 0...+122°F |
| | Storage temperature | -4...+185°F |
| | Humidity | 0 ...90% |
| EMC | In accordance to | EN 61326-1 :2013 (CE) |
| | In accordance to | BS EN 61326-1 :2013 (UKCA) |





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