

PSRC1 Temperature Range Configuration Kit

- For use with a host of Paquin Sensor temperature transmitters
- Zero point and span adjustment
- Connects to a PC with no additional power source required
- Easy, fast and reliable temperature range adjustments



About

The P60 configuration kit can be used to quickly configure (adjust) the zero point and span range of select Paquin Sensor temperature transmitters. Will work with any PC via Windows operating systems 7, 8, 10 with 32 or 64 bit edition.

Applications

- ✓ For use with P58 temperature transmitter from -72 to 248°F and with output signal 4...20mA & 20...4mA

PSRC1 Range Configuration 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) |



Build Your Part Number

Series P58

Example: P58H15A116CAT1

| Series | |
|--------|--|
| P58 | |

| Housing Material - select one; see page 4 | |
|---|---|
| H1 | Thermoplastic (tolerance from -72°F...230°F) |
| H2 | 316L Stainless steel (tolerance from -72°F...248°F) |

| Process Connection - select one | |
|---------------------------------|---------------|
| 5A | 1/8" NPT male |
| 5M | G 1/8" male |

| Probe Length - select one | |
|---------------------------|-------|
| 11 | 13 mm |
| 12 | 24 mm |

| Electrical Connection - select one | |
|------------------------------------|---|
| 6C | Male electrical connector M12x1, 4-pole |

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

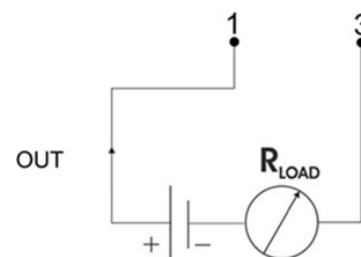
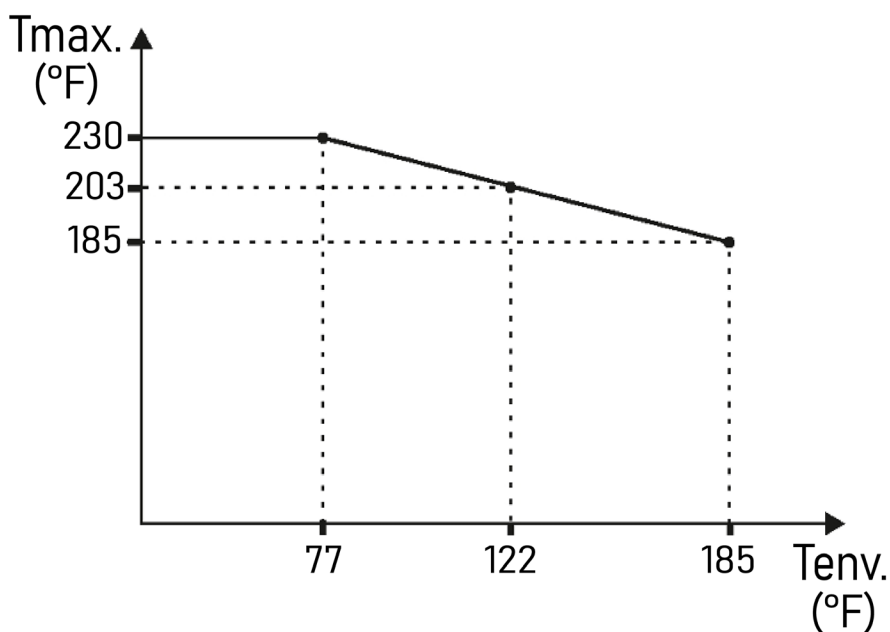
| Media Temperature Range -72 ...+248°F - select one | |
|--|---|
| T1 | 0...212°F factory default Note: can be scaled by user with PSRC1 configuration kit (see page 6) Note: from zero point to full span, minimum tolerance = 68°F |
| XX | Use "X...XXX" for custom ranges (Ex: ex: -0...+125°F / ex: -32...+95°F / ex: +25...180°F) Please inform range below part number Note: from zero point to full span, minimum tolerance = 68°F |

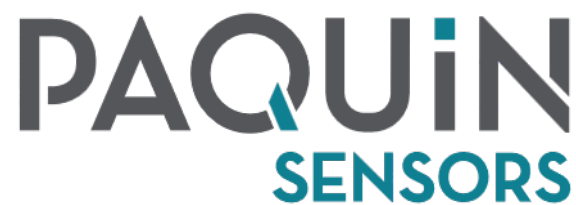
| Mating Electrical Connection Assembly - optional; will be quoted as a separate line item | |
|--|--|
| Part# | |
| PSE1 | M12x1, 5 pole – straight with cable gland (field wireable) |
| PSE2 | M12x1, 5 pole - straight with 1 meter PUR cable |
| PSE3 | M12x1, 5 pole - straight with 3 meter PUR cable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

| Range Configuration Kit - optional; will be quoted as a separate line item; see page 5 | |
|--|---|
| Part# | |
| PSRC1 | To be used with a PC and windows operating system |

Technical Parameters

| P58 Temperature Transmitter Technical Parameters | | |
|--|--|---|
| Accuracy | PT100 | Class A according to IEC 751 |
| | @ 77°F | Max value between ±0.1K and ±0.1% of span |
| | Temp. influence deviation from 68°F | Max value between 32°F/77°F and ±0.3% of span/77°F |
| | Long term stability | Max 0.1% of span per year |
| | Minimum span | 68°F |
| | Internal accuracy error compensation | ±41°F over two points |
| | Response time | <3.5 seconds |
| | Input filter (time to reach 90% of signal) | Configurable from 0.4 ... 9.4 seconds |
| | Zero point and span adjustment | By ±9°F at each end (with configuration kit) |
| Electrical | Supply | 5.5 ...32 VDC |
| | Output signal | 4...20mA |
| | Sensors open (break) indication | Output signal will default to 21mA in accordance to NAMUR NE43 Can be switched to 3.6mA with configuration kit |
| | Short circuit indication | Output signal will default to 3.6mA in accordance to NAMUR NE43 Can be switched to 21mA with configuration kit |
| | Load | Max load 840Ω @ 24 VDC (Resistance load = (Voltage supply - 5.5) / 0.022) |
| | Range configurability | From -58...+230°F with P60 configuration kit |
| | Inverse-polarity protection | Yes |
| Environmental | Media / Measurement range | -58 ...+230°F |
| | Electronics range | -40 ...+185°F |
| | Protection | IP67 |
| | Humidity | 0 ...100% |
| EMC | In accordance to | EN 61326-1 :2013 (CE) |
| | In accordance to | BS EN 61326-1 :2013 (UKCA) |
| Mechanical | Wetted parts (sensor) | AISI 316L |
| | Wetted parts (process connection) | AISI 316L |
| | Housing | Thermoplastic or AISI 316L |
| | Sealing | G threads: By flat gasket, PTFE sealing tape or other (not supplied with sensor) |
| | Weight | 20g (13mm) / 21g (24mm) |





Paquin Sensors' product portfolio is designed to provide options to fit the most diverse range of specifications.

We collaborate with our customers to match the best product technologies with your unique application requirements.

Please [contact us](#) or call +1 (800) 831-8217 anytime to discuss your needs!