



PROFIPAQ-L



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Universal High-performance Profibus-PA Transmitter



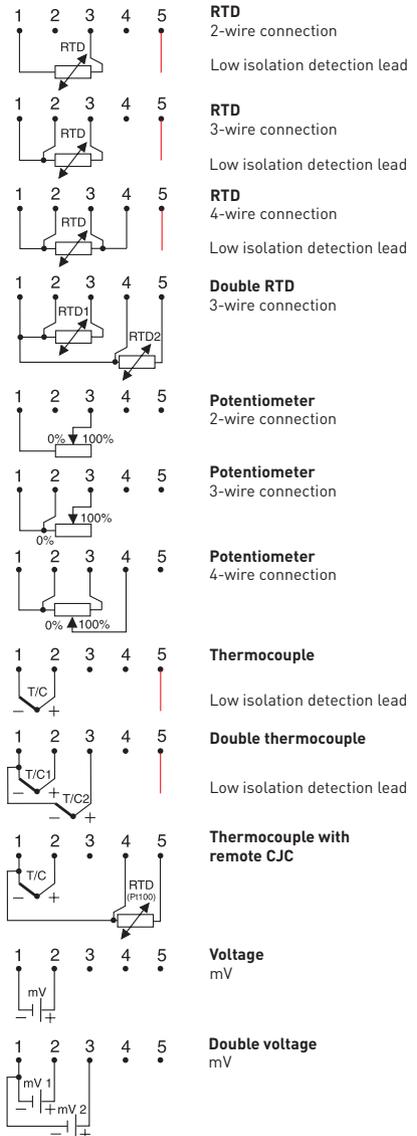
Thanks to the digital output PROFIPAQ-L offers very accurate measurements as well as sensor and process information. With five input terminals new features such as two redundant Pt100 in 3-wire connection, are included. Configuration from a PC with Inor software, ProfiSoft, or over the Profibus network.

- Up to 125 transmitters in one Profibus network
- Profile version 3.0, Class A & B
- Fully universal, linearized and isolated
- Accepts RTD, T/C, mV and Ω
- Double Pt100, 3-wire, and T/C input
- Multiple outputs: Input value of Ch1 and Ch2, a scaled process value, redundancy with double sensor elements, arithmetic functions (difference, average, minimum and maximum)
- Easy wiring, plug-in screw terminals
- Sensor matching corrects for sensor errors
- 50 point linearization – any sensor can be matched
- Excellent sensor monitoring functions such as: sensor break, sensor short circuit, low sensor isolation and sensor aging
- Up to 8 Masters Class 2
- Integrated in Siemens PDM system

Specifications:

| | |
|--|--|
| Input RTD and Resistance | 2-, 3- and 4-wire connection |
| Pt10 ¹⁾ , Pt50 ¹⁾ , Pt100 ¹⁾ , Pt200 ¹⁾ , Pt500 ¹⁾ , Pt1000 ¹⁾ | -200 to +850 °C / -328 to +1562 °F |
| PtX 10 ≤ X ≤ 1000 ^{1), 4)} | -200 to +850 °C / -328 to +1562 °F |
| Pt10 ²⁾ , Pt50 ²⁾ , Pt100 ²⁾ | -200 to +850 °C / -328 to +1562 °F |
| Ni50 ³⁾ , Ni100 ³⁾ , Ni120 ³⁾ , Ni1000 ³⁾ | -200 to +850 °C / -328 to +1562 °F |
| Input Potentiometer / Resistance | 0 to 4000 Ω |
| Input Thermocouples | B, C, D, E, J, K, L, N, R, S, T, U |
| Input Voltage | -10 to +1000 mV |
| Double channels for redundancy and arithmetic functions | |
| Differential | Ch1 - Ch2 or Ch2 - Ch1 |
| Average value | 0.5 x (Ch1 + Ch2) |
| Average value with redundancy | 0.5 x (Ch1 + Ch2), Ch1 or Ch2 if the other one is broken |
| Minimum value | Min [Ch1, Ch2] |
| Maximum value | Max [Ch1, Ch2] |
| Operating temperature | -20 to +70 °C / -4 to +158 °F |
| Galvanic isolation | 1500 VAC, 1 min |
| Power supply | 9 to 32 VDC |
| Typical accuracy | Pt100: 0.10 °C / 0.18 °F ⁵⁾ |
| Mounting | Rail acc. to DIN EN50022, 35 mm |

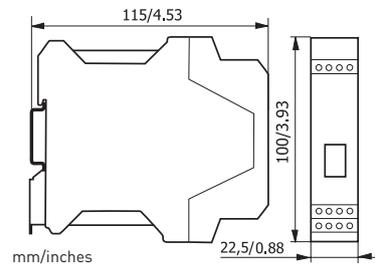
Input connections



Output connections



Dimensions



Ordering information

| | |
|----------------------|------------|
| PROFIPAQ-L | 70PPL00001 |
| PC Configuration kit | 70CFG00092 |
| Configuration | 70CAL00001 |

¹⁾IEC 60751, $\alpha=0.00385$ ²⁾JIS 1604, $\alpha=0.003916$ ³⁾DIN 43760, $\alpha=0.006180$ ⁴⁾With Inor PC software ProfiSoft

⁵⁾For other inputs, see datasheet