

PROFIPAQ-H



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Universal High-performance Profibus-PA Transmitters



Thanks to the digital output PROFIPAQ-H 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, large center hole
- 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
- Rugged design tested for 5 g vibrations
- Integrated in Siemens PDM system

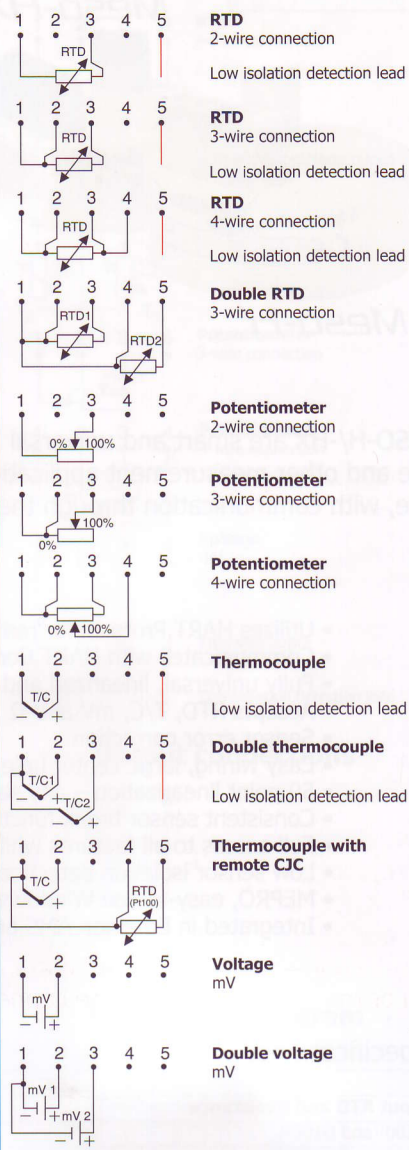
Specifications:

Input RTD and Resistance	2-, 3- and 4-wire connection
Pt10 ¹⁾ , Pt50 ²⁾ , 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	-40 to +85 °C / -40 to +185 °F
Galvanic isolation	1500 VAC, 1 min
Power supply	PROFIPAQ-H: 9 to 32 VDC PROFIPAQ-HX: 9 to 17.5 VDC
Ex-approval	
PROFIPAQ-H	ATEX: II 3 G EEx nL IIC T4-T6 (FNICO)
PROFIPAQ-HX	ATEX: II 1 G Ex ia IIC T4-T6 (FISCO)
Typical accuracy	Pt100: 0.10 °C/0.18 °F ⁵⁾
Connection head	DIN B or larger

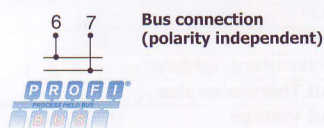
¹⁾IEC 60751, $\alpha=0.00385$ ²⁾JIS 1604, $\alpha=0.003916$ ³⁾IEC 60751, $\alpha=0.006180$ ⁴⁾With Inor PC software ProfiSoft

⁵⁾For other inputs, see datasheet

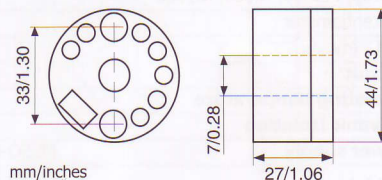
Input connections



Output connections



Dimensions



Ordering information

PROFIPAQ-H	70PPH00001
PROFIPAQ-HX	70PPHX00001
PC Configuration kit	70CFG00092
Configuration	70CAL00001