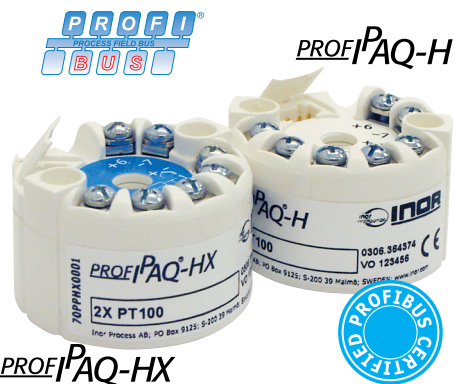


PROFIPAQ-H

Universal High-performance Profibus-PA Transmitters



Input connections

Output connections

Dimensions

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 ohm
- 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: (For detailed specifications, see separate datasheet.)

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	-40 to +85 °C/-40 to +185 °F
Galvanic isolation	1500 VAC, 1 min
Power supply	9 to 32 VDC
	9 to 17.5 VDC

Intrinsic safety	PROFIPAQ-HX	ATEX: II 1 G EEx ia IIC T4-T6, FISCO model
	PROFIPAQ-HX	FM: Class I-III, Div. 1, Gr. A-D, G
Typical accuracy		Pt100: 0.10 °C/0.18 °F ⁵
Connection head		DIN B or larger

Ordering information

ProfIPAQ-H	70PPH00001
ProfIPAQ-HX (ATEX)	Appr.pending
ProfIPAQ-HX (FM)	Appr.pending
PC configuration kit	70CFG00092
Configuration	70CAL00001

¹(IEC751, α=0.00385) ²(JIS1604, α=0.003916) ³(DIN43760, α=0.006180) ⁴With Inor PC software ProfiSoft ⁵For other inputs, see datasheet