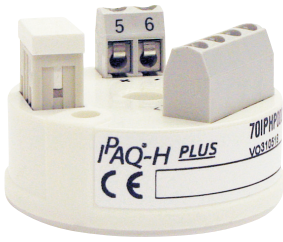## IPAQ-H^{PLUS}

High-precision Universal Programmable 2-wire Transmitter

CE

5 YEAR WARRANTY

IPAQ-HPLUS offers outstanding accuracy, stability and high isolation combined with short response time and extended functionality.

It is a universal 2-wire transmitter for high-demand temperature and process measurement applications.

Error corrections and sensor diagnostics improve the measurement accuracy and safety.
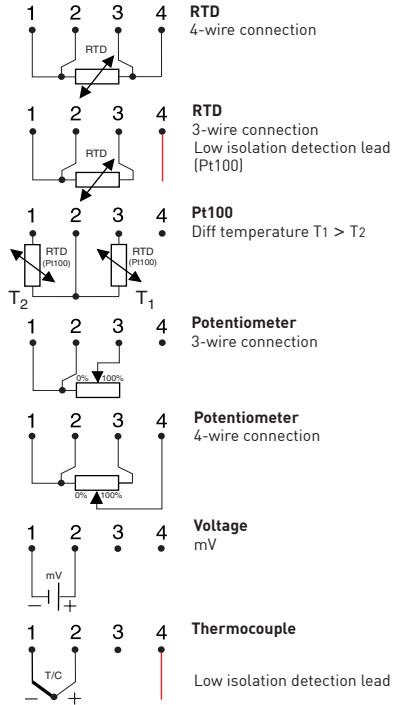
- Fully universal, linearized and highly isolated
- Accepts RTD, T/C, mV and Ω
- Extra high accuracy and stability
- Sensor error and system (sensor/transmitter) error correction for highest total accuracy
- 40 point linearization - any sensor can be matched
- Configuration without external power
- High speed update (300 ms)
- Selectable output limits
- Low sensor isolation detection
- Full access to all features while in operation
- NAMUR compliant
- Consistent sensor break function
- Simplified loop check-up with calibration output
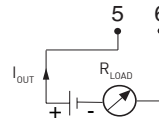- IPRO, easy-to-use Windows configuration software

Input connections

RTD 4-wire connection

RTD 3-wire connection Low isolation detection lead (Pt100)

Pt100 Diff temperature T1 > T2

Potentiometer 3-wire connection

Potentiometer 4-wire connection

Voltage mV

Thermocouple Low isolation detection lead

Output connections

Output load diagram
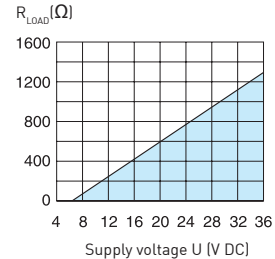
$R_{LOAD}=(U-6.5)/0.022$

Dimensions

mm/inches

Specifications:

Input RTD	3-, 4-wire connection
Pt100 (α =0.00385)	-200 to +1000 °C / -328 to +1832 °F
Pt1000 (α =0.00385)	-200 to +200 °C / -328 to +392 °F
PtX 10 ≤ X ≤ 1000 (α=0.00385)	Upper range depending on X-value
Pt100 (α =0.003902)	-200 to +1000 °C / -328 to +1832 °F
Pt100 (α =0.003916)	-200 to +1000 °C / -328 to +1832 °F
Ni100[1], Ni120[2]	-60 to +250 °C / -76 to +482 °F
Ni1000[1]	-100 to +150 °C/-148 to +302 °F
Cu10[3]	-200 to +260 °C/-328 to +500 °F
Input Potentiometer/resistance	3-, 4-wire connection, 0 to 2000 Ω
Input Thermocouples	Types B, C, E, J, K, L, N, R, S, T, U
Input mV	-10 to +500 mV
Sensor failure/Low isolation	User definable output
Adjustments - Zero	Any value within range limits
Adjustments - Minimum spans	
Pt100, Pt1000, Ni100, Ni1000	10 °C / 18 °F
Potentiometer	5 Ω
T/C, mV	2 mV
Output	4-20 / 20-4 mA, temperature linear
Operating temperature	-40 to +85 °C / -40 to +185 °F
Galvanic isolation	3750 VAC, 1 min
Power supply	6.5 to 36 VDC
Typical accuracy	±0.05 % of span
Connection head	DIN B or larger

[1] DIN 43760   [2] Edison No. 7   [3] Edison No. 15

Ordering information

IPAQ-H^{PLUS}	70IPHP0001
PC Configuration Kit	70CFG00092
Configuration	70CAL00001