

IPAQ C330

Universal Programmable 2-wire transmitter



IPAQ C330 is a universal, isolated, temperature transmitter with additional voltage and resistance input. Its robust design and high quality gives excellent performance and accuracy also under harsh conditions.

IPAQ C330 supports communication via NFC® (Near-field communication) and Bluetooth® which makes it possible to configure and monitor the transmitter remotely.

- High accuracy and long term stability
- 50-point Customized Linearization and Callendar-Van Dusen
- Accepts RTD, T/C, mV and Ω
- Sensor error and system (sensor/transmitter) error correction for highest total accuracy
- Low temperature drift
- Configuration via USB or NFC without external power
- Runtime counter - hour counter for elapsed operational time
- Rugged design tested for 10 g vibrations
- High security - Password protection and date of changes logged

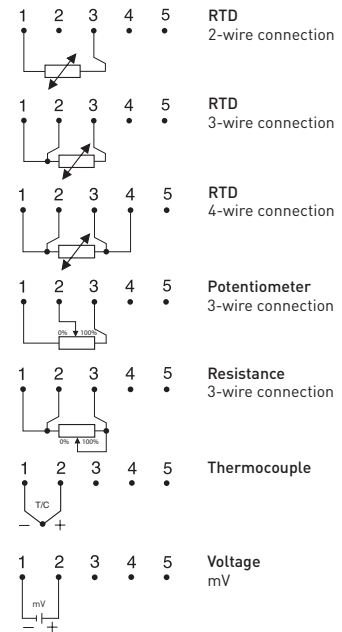
Specifications:

Input RTD	2-, 3-, 4-wire connection
Pt100 ($\alpha = 0.00385$) ¹⁾	-200 to +850 °C / -328 to +1562 °F
PtX $10 \leq X \leq 1000$ ($\alpha = 0.00385$) ¹⁾	-200 to +850 °C / -328 to +1562 °F
Pt100 ($\alpha = 0.003916$) ²⁾	-200 to +850 °C / -328 to +1562 °F
Ni100 ³⁾ , Ni120 ⁴⁾	-60 to +250 °C / -76 to +482 °F
Ni1000 ³⁾	-50 to +180 °C / -58 to +356 °F
Cu10 ⁵⁾	-50 to +200 °C / -58 to +392 °F
Input Resistance / potentiometer	0 to 10000 Ω / 100 to 10000 Ω
Input Thermocouples	Types B, C, D, E, J, K, N, R, S, T
Input mV	-10 to +1000 mV
Sensor failure	Upscale (≥ 21.0 mA) or downscale (≤ 3.6 mA) action
Adjustments - Zero	Any value within range limits
Adjustments - Minimum spans	
Pt100, Pt1000, Ni100, Ni1000	10 °C / 18 °F
Resistance / potentiometer	10 Ω / 10 %
T/C, mV	2 mV
Output	4-20 mA / 20-4 mA, temperature linear
Operating temperature	-40 to +85 °C / -40 to +185 °F
Galvanic isolation	1500 VAC, 1 min
Power supply	IPAQ C330 8.0...36.0 VDC
	IPAQ C330X 8.0...30.0 VDC
Intrinsic safety	
IPAQ C330X ATEX:	II 1 G Ex ia IIC T6...T4 Ga
IPAQ C330X IECEx:	Ex ia IIC T6...T4 Ga
IPAQ C330X FM US:	IS CL I Div 1 GP A-D, T6...T4 ⁶⁾
IPAQ C330X FM CA:	CL I Zn 0 AEx/Ex ia IIC T6...T4 Ga ⁶⁾
Typical accuracy	$\pm 0.08^\circ\text{C}$ or $\pm 0.08\%$ of span
Mounting	DIN B head or larger, DIN-rail (with adapter)

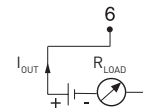
¹⁾ IEC 60751, ²⁾ JIS C 1604, ³⁾ DIN 43760, ⁴⁾ Edison No. 7, ⁵⁾ Edison No. 15, ⁶⁾ T6...T4 are depending on effect

Input connections

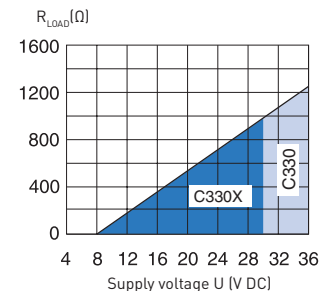
See data sheet for more alternatives



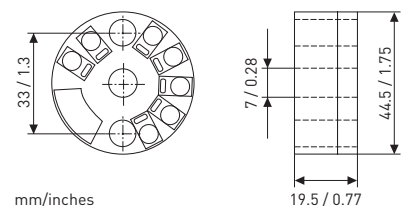
Output connections



Output load diagram



Dimensions



Ordering information

IPAQ C330	70C3300012
IPAQ C330X (ATEX, IECEx)	70C330X012
IPAQ C330X (cFmus, ATEX, IECEx)	70C330F012
ICON-X, PC configuration kit	70CFGUSX01
ICON-BT, Bluetooth® configuration kit	70CFGBT001
Head mounting kit	70ADA00017
Rail mounting kit	70ADA00015