

IPAQ C310RTD

Programmable
2-wire transmitter
for RTD and
Resistance inputs



The IPAQ C310^{RTD} transmitter is a isolated temperature transmitter for measurement with a RTD sensor. It is compatible with Pt10 ... Pt1000 sensors with additional Ni100, Ni120, Ni1000 and resistance input. Its robust design and high quality gives excellent performance and accuracy also under harsh conditions.

IPAQ C310^{RTD} 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
- Galvanic isolation
- \bullet Accepts RTD and Ω
- Sensor error and system (sensor+transmitter) error correction for highest total accuracy
- Low temperature drift
- Configuration via PC, NFC or Bluetooth® without external power
- Runtime counter hour counter for elapsed operational time
- Rugged design tested for 10 g vibrations

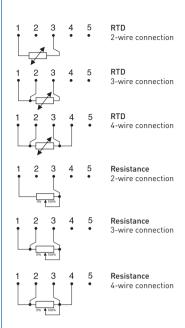
¹⁾ IEC 60751, ²⁾ JIS C 1604, ³⁾ DIN 43760, ⁴⁾ Edison Curve No. 7

High security - Password protection and date of changes logged

Specifications:

Input RTD	2-, 3-, 4-wire connection	
Pt100 (a =0.00385)1)	-200 to +850 °C / -328 to +1562 °F	
PtX 10 < X < 1000 (a =0.00385)11	-200 to +850 °C / -328 to +1562 °F	
Pt100 (a =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	
Input Resistance	0 to 10 000 Ω	
Sensor failure	Upscale (≽21.0 mA) or downscale (≤3.6 mA) action	
Adjustments - Zero	Any value within range limits	
Adjustments - Minimum spans		
RTD	10 °C / 18 °F	
Resistance	10 Ω	
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	8.036.0 VDC	
Typical accuracy	Max. of ±0.1 °C or ±0.1 % of span	
Mounting	DIN B head or larger, DIN-rail (with adapter)	

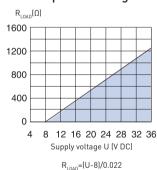
Input connections



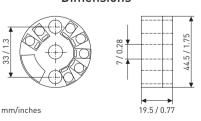
Output connections



Output load diagram



Dimensions



Ordering information

or dering information		
IPAQ C310RTD	70C3100011	
ICON-X, PC configuration kit	70CFGUSX01	
ICON-BT, Bluetooth® configuration kit	70CFGBT001	
Head mounting kit	70ADA00017	
Rail mounting kit	70ADA00015	

