IPAQ R202

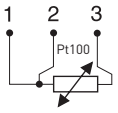
PC-Programmable 2-wire Transmitter for Pt100 Input

5 YEAR WARRANTY

IPAQ R202 is a digital, easy-to-use temperature transmitter developed for measurements with Pt100 sensors.
Its robust design and high quality gives excellent performance and accuracy also under harsh conditions.
With the new runtime counter function you can easily supervise the elapsed operational time between calibrations.

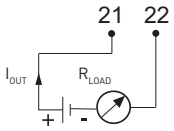
- Input: Pt100 in 3-wire connection
- PC configurable measuring ranges without need for calibration
- Freely adjustment of zero point and input range
- Temperature linear output
- Runtime counter
- Excellent EMC immunity
- Configuration without external power
- Easy-to-use Windows configuration software
- USB communication
- Withstands vibrations up to 5 g

Input connections

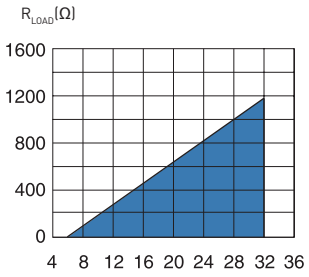


Pt100
3-wire connection

Output connections

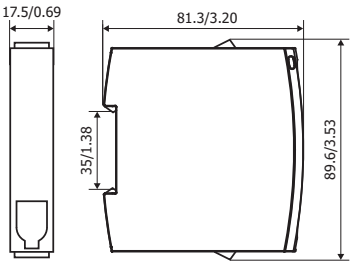


Output load diagram



R_{LOAD}=(U-6)/0.022

Dimensions



mm/inches

Specifications:

Input Pt100	3-wire connection
Pt100 (α=0.00385)	-200 to +850 °C / -328 to +1562 °F
Sensor failure	Upscale (≥21.0 mA) or downscale (≤3.6 mA) action
Adjustments	
Zero adjustment	Any value within range limits
Minimum span	20 °C / 36 °F
Sensor error compensation	±10% of span for span <100°C/180°F otherwise ±10°C/±18°F
Output	4...20 mA, temperature linear
Adjustable filtering level	0.13 to 54 s, (default 0.9 s)
Permissible load	818 Ω @ 24 VDC
Response time	< 50 ms
Environment conditions	
Ambient temperature	-40 to + 85 °C / -40 to +185 °F
Humidity	0...98% RH (non-condensing)
Vibrations	Acc. to IEC 60068-2-6, test Fc, 10...2000 Hz, 5 g
EMC	Directive: 2014/30/EU Harmonized standards: EN 61326-1, EN 61326-2-3
Galvanic isolation	No
Power supply	6.0...32.0 VDC
Accuracy [1]	Max of ±0,1K or ±0,1% of span
Long-term stability	±0.1 % of span per year
Mounting	**Rail acc. to DIN EN 50022, 35 mm**
Weight	50 g / 0.11 lb
Protection, housing / terminals	IP 20 / IP 00

Ordering information

IPAQ R202	70R2020010
PC configuration kit (USB-conn.)	70CFGUSX01