

## IPAQ C202

### PC-Programmable 2-wire Transmitter for Pt100 Input



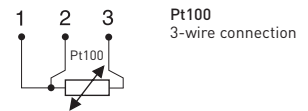
The IPAQ C202 is a digital, easy-to-use 2-wire temperature transmitter for measurement with a Pt100 resistance sensor. Its robust design and high quality gives excellent performance and accuracy also under harsh conditions. IPAQ C202 combines competitive cost with easy and user friendly functionality and reliable accuracy during the lifetime.

- Robust terminals with test connections
- Input: Pt100 in 3-wire connection
- PC configurable measuring ranges without need for calibration
- Temperature linear output
- Very short response time
- Excellent EMC immunity
- Configuration without external power
- Easy-to-use Windows configuration software
- USB communication
- Withstands vibrations up to 10 g
- Runtime counter
- Only 19.5 mm / 0.72 inch high

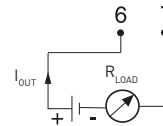
#### Specifications:

<b>Input Pt100</b>	3-wire connection	
Pt100 ( $\alpha=0.00385$ )	-200 to +850 °C / -328 to +1562 °F	
<b>Sensor failure</b>	Upscale ( $\geq 21.0$ mA) or downscale ( $\leq 3.6$ mA) action	
<b>Adjustments</b>		
Zero adjustment	Any value within range limits	
Minimum span	20 °C / 36 °F	
Sensor error compensation	$\pm 10\%$ of span for span <100°C/180°F otherwise $\pm 10^\circ\text{C}/\pm 18^\circ\text{F}$	
<b>Output</b>		
Adjustable filtering level	4...20 mA, temperature linear	
Response time	0.13 to 54 s, (default 0.9 s)	
Response time	< 50 ms	
<b>Environment conditions</b>		
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, 10 g	
EMC	Directive: 2014/30/EU Harmonized standards: EN 61326-1, EN 61326-2-3	
<b>Galvanic isolation</b>	No	
<b>Power supply</b>	Standard version	6.0...32.0 VDC
	Ex version	8.0...30.0 VDC
<b>Intrinsic safety</b>		
IPAQ C202X	ATEX:	II 1G Ex ia IIC T6...T4 Ga
	IECEx:	Ex ia IIC T6...T4 Ga
<b>Accuracy</b>	Max of $\pm 0,1\text{K}$ or $\pm 0,1\%$ of span	
Long-term stability	$\pm 0,1\%$ of span per year	
<b>Connection head</b>	DIN B or larger	
Weight	32 g / 0.07 lb	
Protection, housing / terminals	IP 65 / IP 00	

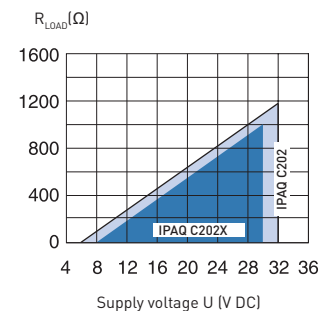
#### Input connections



#### Output connections



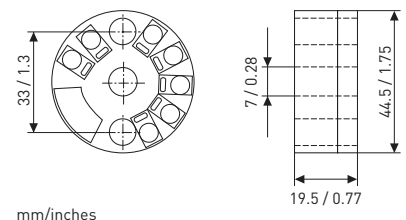
#### Output load diagram



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

$$R_{LOAD} = (U - 8) / 0.022$$

#### Dimensions



#### Ordering information

IPAQ C202	70C2020010
IPAQ C202 (ATEX / IECEx)	70C202X010
PC configuration kit (USB-conn.)	70CFGUSX01
Head mounting kit	70ADA00017
Rail mounting kit	70ADA00015