

## C201



# Analog PC-Programmable 2-wire Transmitters for Pt100 Input



C201 is an analog, non-isolated, easy-to-use 2-wire transmitter for Pt100 input.

C201X is the Intrinsically Safe version for use in hazardous areas.

Configuration is made in seconds with the user friendly software, ConSoft.

No external power supply required for configuration.

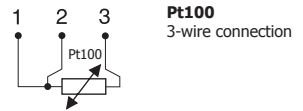
C201/C201X are designed for Pt100 in 3-wire connection according to different standards.

- Robust terminals with test connections
- Only 18.5 mm / 0.72 inch high
- 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

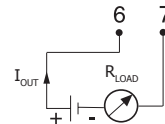
### Specifications:

<b>Input Pt100</b>		3-wire connection
Pt100 ( $\alpha=0.00385$ )		-50 to +850 °C / -58 to +1562 °F
Pt100 ( $\alpha=0.003902$ )		-50 to +850 °C / -58 to +1562 °F
Pt100 ( $\alpha=0.003916$ )		-50 to +850 °C / -58 to +1562 °F
<b>Sensor break</b>		Upscale or downscale
<b>Adjustments</b>		
Zero		-50, -25, 0, +25, +50 °C / -58, -13, +32, +77, +122 °F
Minimum span		20 °C / 36 °F
<b>Sensor error compensation</b>		±1 % of span
<b>Output</b>		4-20 mA, temperature linear
<b>Response time</b>		< 50 ms
<b>Ambient temperature</b>		
Operation and storage		-40 to +85 °C / -40 to +185 °F
<b>Galvanic isolation</b>		No
<b>Power supply</b>	C201	8.5 to 32 VDC, Standard power supply
	C201X	8.5 to 30 VDC, IS power supply
<b>Accuracy</b> <sup>1)</sup>		Max. of ±0.1 °C / 0.2 °F or ±0.1 % of span
<b>Connection head</b>		DIN B or larger
<b>Ex-classification</b>		
C201 ATEX:		II 3 G Ex nL IIC T4-T6
C201 FM:		NI CL I, DIV 2, GP A-D (Pending)
C201 CSA:		Class I, Division 2 (Pending)
C201X ATEX:		II 1 G EEx ia IIC T4-T6
C201X FM:		IS CL I, DIV 1, GP A-D (Pending)
C201X CSA:		Class I, Division 1, Groups A-D (Pending)
<sup>1)</sup> Includes calibration and linearity errors		

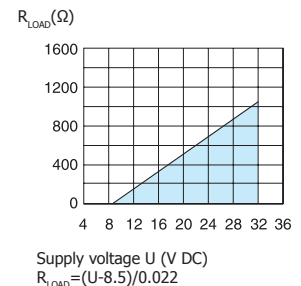
### Input connections



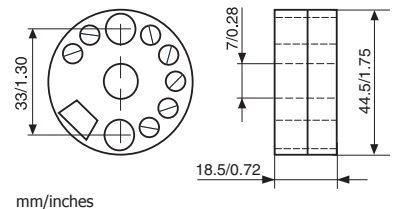
### Output connections



### Output load diagram



### Dimensions



### Ordering information

C201	70C2010010
C201X (ATEX)	70C201X010
PC configuration kit (USB-conn.)	70CFGUS001
Configuration	70CAL00001
Head mounting kit	70ADA00017
Rail mounting kit	70ADA00013