

# TEMPERATURE TRANSMITTERS

accurate, microprocessor based, programmable



## Features:

- Microprocessor based
- RTD, t/c, mV and Ohm input (depending on type)
- Galvanic isolated optional
- Good accuracy
- RFI immunity
- Ex optional (Ex ia IIC T4/T6)
- Linear possibility
- Programmable
- Foundation Fieldbus / Profibus

## Specifications:

Input signal	RTD	: Pt100, Pt500, Ni100
	t/c	: K, J, T, E, R, S, B, L, U, N
	mV	: 0 to 100 mVDC
	Ohm	: 0 to 5000 Ohm
Temperature ranges		: see table reverse side
Minimum span RTD		: 25 °C (45 °F) or 30Ω
Minimum span t/c		: 50 (200 °C for noble metals (90 °F std. t/c))
Output		: 4-20 mA or 20-4 mA DC
Linearization		: linear for all inputs, programmable
Response time		: 1-60 sec. programmable
Linearity error		: 0,1% FS
Cold junction compensation error		: $\leq \pm 1,0$ °C
Power supply		: 7-35 V DC (28 V Ex), polarity protected
Supply effect		: 0,005% FS/VDC
Excitation current RTD		: 0,2 mA nominal
Sensor lead resistance RTD		: 5 Ohm max. per lead
Sensor lead resistance t/c		: 1000 Ohm max.
Open circuit		: up scale or down scale, programmable, with min./max. levels
Load capability		: (Vbat-13V)/20 mA
Warm-up		: 5 minutes
RFI effect		: smaller than $\pm 0,5\%$ FS
Isolation		: 1500 V DC input/output (optional)
Humidity		: 0-90% RH (air)
Ambient operation temperature		: -40 to +85 °C (-40 to 185 °F)
Dimensions		: round 43 mm o.d. x 25 mm high
Weight		: approx. 50 grams

## Ordering code:

<b>5331A</b>	: Programmable, RTD,TC,Ohm or mV input	<b>5334B</b>	: Programmable, TC input ATEX,isolated
<b>5331B</b>	: Programmable, RTD,TC,Ohm or mV input ATEX	<b>5335A</b>	: Programmable, with Hart® protocol
<b>5333A</b>	: Programmable, RTD or Ohm input	<b>5335B</b>	: Programmable, with Hart® protocol, ATEX
<b>5333B</b>	: Programmable.,RTD or Ohm input ATEX	<b>5350A</b>	: Programmable, profibus® pa/foundation fieldbus
<b>5334A</b>	: Programmable, TC input,isolated	<b>5350B</b>	: Programmable, profibus® pa/foundation fieldbus ATEX

**ACCESSORIES:** see reverse side or other specifications



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