

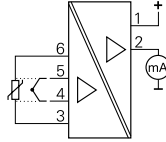
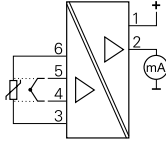
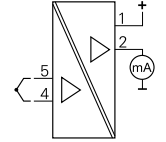
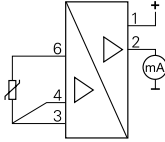
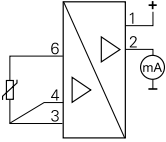
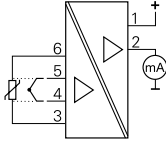
TEMPERATURE TRANSMITTERS



TYPE	5331A	5332A	5333A	5334A	5335A	5337A
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INPUT:
RTD, linear resistance,
TC, mV, potentiometer

OUTPUT:
mA,
HART communication



INPUT:						
mV, measurement range / min. span	-12...800 mV / 5 mV				-12...150 mV / 5 mV	-800...+800 mV / 2.5 mV
RTD, measurement range / min. span	-200...+850°C / 25°C	-200...+850°C / 25°C	-200...+850°C / 25°C		-200...+850°C / 10°C	-200...+850°C / 10°C
Lin. R, measurement range / min. span	0...5000 Ω / 30 Ω	0...5000 Ω / 30 Ω	0...10 kΩ / 30 Ω		0...7000 Ω / 25 Ω	0...7000 Ω / 25 Ω
Potentiometer						
Sensor connection, wires	2 - 3 - 4	2 - 3 - 4	2 - 3		2 - 3 - 4	2 - 3 - 4
TC types	BEJKLNRSTUW3W5Lr				BEJKLNRSTUW3W5Lr	BEJKLNRSTUW3W5
Max. offset	50% of selec. max. value	50% of selec. max. value	50% of selec. max. value	50% of selec. max. value	50% of selec. max. value	50% of selec. max. value
Cold junction compensation	Internal / external				Internal	Internal / external
OUTPUT:						
mA, signal range / min. span	3.5...23 mA / 16 mA	3.5...23 mA / 16 mA	3.5...23 mA / 16 mA	3.5...23 mA / 16 mA	3.5...23 mA / 16 mA	3.5...23 mA / 16 mA
TECHNICAL SPECIFICATIONS:						
Ambient temperature	-40...+85°C	-40...+85°C	-40...+85°C	-40...+85°C	-40...+85°C	-40...+85°C
Supply voltage, DC	7.2...35 VDC	7.2...35 VDC	8...35 VDC	7.2...35 VDC	8...35 VDC	8...35 VDC
Max. required power	0.8 W	0.8 W	0.8 W	0.8 W	0.8 W	0.8 W
Isolation voltage, test / operation	1500 VAC / 50 V			1500 VAC / 50 V	1500 VAC / 50 V	1500 VAC / 50 V
Response time	1...60 s	1...60 s	0.33...60 s	1...60 s	1...60 s	1...60 s
Signal dynamics, input / output	20 bit / 16 bit	20 bit / 16 bit	19 bit / 16 bit	18 bit / 16 bit	22 bit / 16 bit	22 bit / 16 bit
Accuracy	≤ ±0.05% of span	≤ ±0.05% of span	≤ ±0.1% of span	≤ ±0.05% of span	≤ ±0.05% of span	≤ ±0.05% of span
Temperature coefficient	< ±0.01% of span / °C	< ±0.01% of span / °C	< ±0.01% of span / °C	< ±0.01% of span / °C	< ±0.005% of span / °C	< ±0.005% of span / °C
NAMUR	NE 21, NE 43	NE 43	NE 43	NE 21, NE 43	NE 21, NE 43, NE89	NE 21, NE 43, NE89
Channels	1	1	1	1	1	1
Programming	5909	5909	5909	5909	5909/HART 5	5909/HART 7/HART 5

APPROVALS:						
ATEX, Zone 2	✓	✓	✓	✓	✓	✓
IECEX, Zone 2	✓	✓	✓	✓	✓	✓
CSA, Zone 2 - DIV 2						
FM, Zone 2 - DIV 2						
CCOE	✓		✓	✓		
INMETRO	✓		✓	✓	✓	✓
NEPSI						
DNV-GL	✓		✓	✓	✓	✓
EAC	✓		✓	✓	✓	✓
SIL 2, Hardware Assessment					✓	✓

APPLICATION GUIDE:						
RTD / TC / mV input	✓ / ✓ / ✓	✓ / - / -	✓ / - / -	- / ✓ / ✓	✓ / ✓ / ✓	✓ / ✓ / ✓
Lin. R / potentiometer input	✓ / -	✓ / -	✓ / -		✓ / -	✓ / -
Dual input (4 terminals)					✓	✓
Custom sensor linearization	✓	✓	✓	✓	✓	✓
mA output	✓	✓	✓	✓	✓	✓
Loop-powered	✓	✓	✓	✓	✓	✓
Galvanically isolated	✓			✓	✓	✓
HART protocol					✓	✓
Mounting in Zone 2 / DIV 2	✓ / -	✓ / -	✓ / -	✓ / -	✓ / -	✓ / -
Process signal calibration	✓	✓	✓	✓	✓	✓