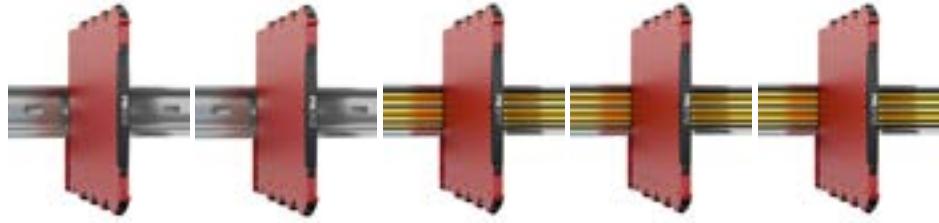


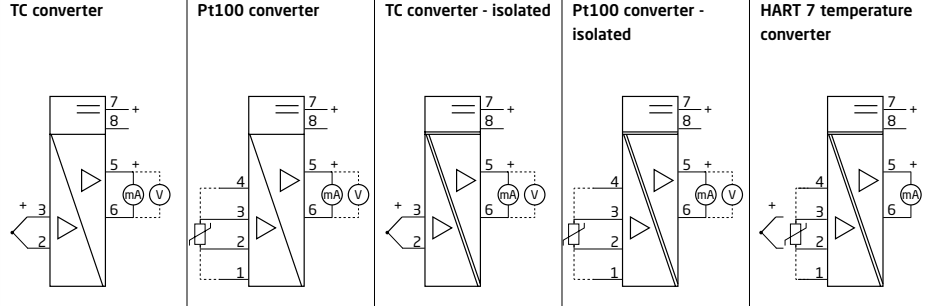
TEMPERATURE TRANSMITTERS



TYPE **3101** **3102** **3111** **3112** **3113**

INPUT:
RTD, linear resistance,
TC, mV, mA, potentiometer

OUTPUT:
mA,
HART communication



INPUT:					
RTD, measurement range / min. span			-200...+850°C / 10°C		-200...+850°C / 10°C
Lin. R, measurement range / min. span					
Sensor connection, wires			2 - 3 - 4		2 - 3 - 4
TC types	J & K			J & K	
Max. offset					
Cold junction compensation	Internal			Internal / external	Internal / external
OUTPUT:					
mA, signal range / min. span	0...23 mA / 16 mA		0...23 mA / 16 mA		0...23 mA / 16 mA
Load (@ current output)	≤ 600 Ω		≤ 600 Ω		≤ 600 Ω
V, signal range / min. span	0...1.0 VDC / 4 VDC		0...1.0 VDC / 4 VDC		0...1.0 VDC / 4 VDC
Load (@ voltage output)	≥ 10 kΩ		≥ 10 kΩ		≥ 10 kΩ
TECHNICAL SPECIFICATIONS:					
Ambient temperature	-25...70°C		-25...70°C		-25...70°C
Supply voltage, DC	16.8...31.2 VDC		16.8...31.2 VDC		16.8...31.2 VDC
Max. required power*	0.52 W		0.52 W		0.7 W
Isolation voltage, test / operation			2.5 kVAC / 250 VAC		2.5 kVAC / 250 VAC
Response time	< 30 ms		< 30 ms		< 30 ms
Signal dynamics, input / output	23 bit / 18 bit		23 bit / 18 bit		23 bit / 18 bit
Accuracy	≤ ±0.1% of span		≤ ±0.1% of span		≤ ±0.05% of span
Temperature coefficient	< ±0.01% of span / °C		< ±0.01% of span / °C		< ±0.01% of span / °C
NAMUR	NE 21, NE 43		NE 21, NE 43		NE 21, NE 43
Channels	1		1		1
Programming	DIP switch		DIP switch		DIP switch / HART

APPROVALS:					
ATEX, Zone 2	✓		✓		✓
IECEX, Zone 2	✓		✓		✓
FM, Zone 2 - DIV 2	✓		✓		✓
CCOE	✓		✓		✓
UL 61010 / 508	✓ / -		✓ / -		✓ / -
DNV-GL	✓		✓		✓
EAC	✓		✓		✓

APPLICATION GUIDE:					
RTD / TC / mV input	- / ✓ / -		✓ / - / -		✓ / ✓ / -
mA / V output	✓ / ✓		✓ / ✓		✓ / -
Loop-powered					
Galvanically isolated			✓		✓
HART protocol					✓
Mounting in Zone 2 / DIV 2	✓ / ✓		✓ / ✓		✓ / ✓
Process signal calibration					✓
Power rail option			✓		✓

* = @ 24 VDC

Of span = Of the presently selected range