

Temperature transmitter

ECXI-43/433/4D33



Transmit single/double channel thermocouple signals or voltage signals in the hazardous area by isolating and transmitting output single/double current or voltage to non-hazardous area. It has cold junction temperature compensation function and can be connected to a connection network in non-hazardous area via communication interface. It is an intelligent product with online self-diagnosis function. Customer may set the input signal type and output range with a handheld programmer.

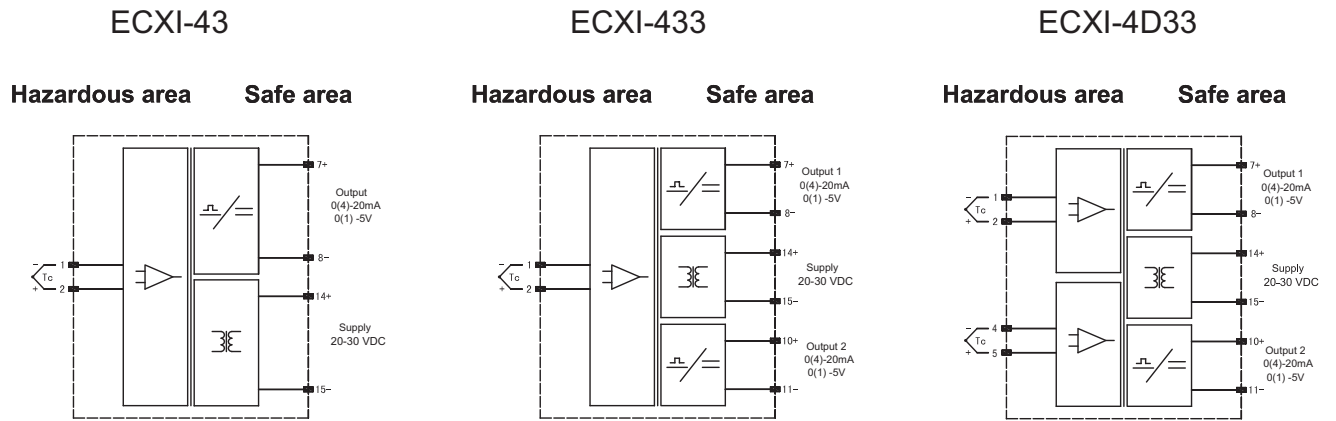
- Temperature measurement amplifier with assembly and disassembly terminal
- Intrinsically safe input loop EEx ia with wire breakage monitoring function
- Applied area according to ATEX: II (1) GD
- Thermocouple input, mV signal
- Adjustable output analogue at input failure
- Current output 4...20mA
- Alarm function only for single input product (ECXI-43A)
- Built-in temperature compensating resistor without an external compensating resistor

Main Technical Parameter:

	ECXI-43	ECXI-433	ECXI-4D33
Explosion protection mark:	[EEx ia] IIC IIB	[EEx ia] IIC IIB	[EEx ia] IIC IIB
Current channel:	Single input-single outputs	Single input-double output	Double input-double output
Transmission precision:	±0.1%FS (25°C, without cold-junction compensation precision)	±0.1%FS (25°C, without cold-junction compensation precision)	±0.1%FS (25°C, without cold-junction compensation precision)
Temperature draft:	<50ppm/°C	<50ppm/°C	<50ppm/°C
Allowable input signal for hazardous area:			
Thermocouple:	K, E, S, B, J, T, R, N	K, E, S, B, J, T, R, N	K, E, S, B, J, T, R, N
mV:	0...20mV, 0...75mV, 0...100mV	0...20mV, 0...75mV, 0...100mV	0...20mV, 0...75mV, 0...100mV
Model, type and span specified at order:			
Output signal to safe area:			
Direct current:	4~20mA	4~20mA	4~20mA
Alarm relay output:			
On-off response time:	<20mS	<20mS	<20mS
Allowable(resistive)load:	AC125V 0.5A; DC25V 1A	AC125V 0.5A; DC25V 1A	AC125V 0.5A; DC25V 1A
Analogue output load capacity;	4-20mA: 0-300Ω	4-20mA: 0-300Ω	4-20mA: 0-300Ω
Power consumption (At 24VDC power supply):	0.5W	0.8W	1.3W
Panel indicator:	Power indicator PWR constantly lights at normal meter work.		
	Indicator ALM flickers or constantly lights at failure alarm of input signal.		

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Wiring diagram:



Mechanical drawing:

