

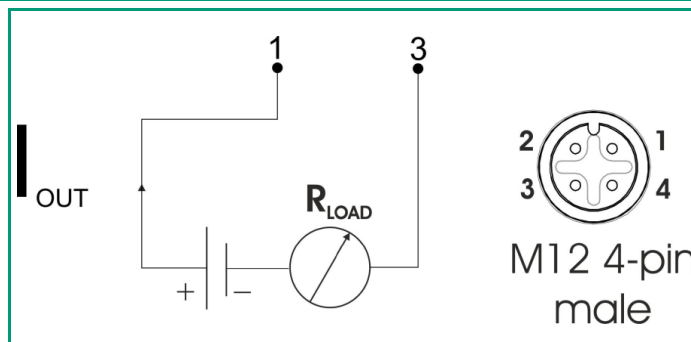
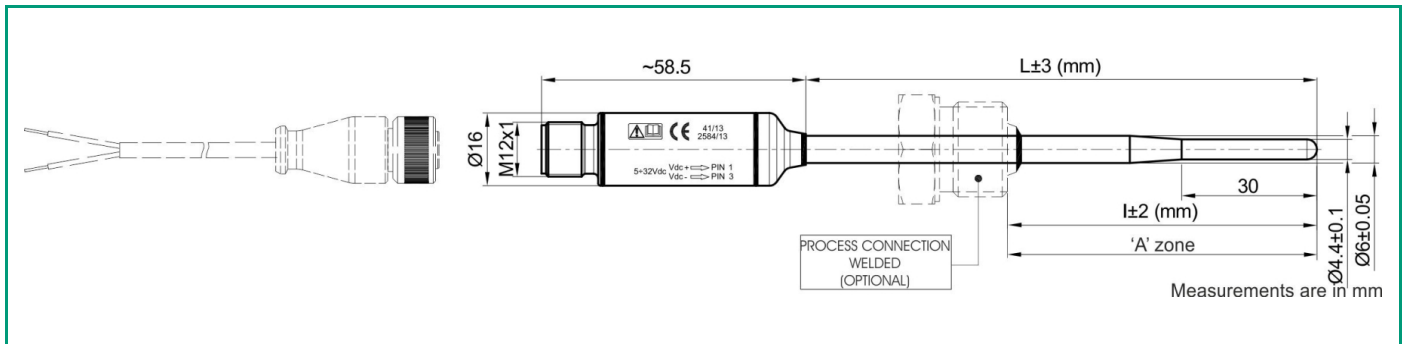
EVOXF

Rev. 1 - 10/06/2022

EvominiX F

4÷20mA programmable temperature transmitter with metallic body and Ø6mm stem tapered to 4.4mm

PC-configurable temperature transmitter with integrated probe in a single stainless steel device. Different type of process connections can be welded on the system. It comes in a metallic IP67 body with M12 output connection. It is particularly suited for food, chemical and pharmaceutical industry.



TECHNICAL SPECIFICATION

Electronic board operating temperature	-40 ÷85°C
Operating humidity	0 ÷100%
Power supply	5.5 ÷32 Vdc (polarity protected)
Input/Output insulation	None
Electronic board input	RTD Pt100/Pt1000 ($\alpha= 0,00385$) 2, 3 o 4 wire connection
Sensor input signal filter (*) (*) time to reach 90% of signal	Configurable from 0.4 to 9.4 seconds
Sensor exciting current	~100 uA
Sensor wire maximum resistance	Max 20 ohm/wire
Signal	4÷20 mA 20÷4 mA
Permitted load	840Ω @ 24 Vdc [Rload= (Vsupply. - 5.5) / 0.022]
Sensor break or short-circuit monitoring	According to NAMUR NE43, selectable between: Upper scale (> 21.0 mA) Lower scale (< 3,6 mA)
Accuracy (*) (*) @25°C	Maximum value between ±0.1K and ±0.1% of span
Temperature influence (*) (*) deviation from 20°C	Maximum value between ±0,3°C/25°C and ±0,3% of span/25°C
Long-term stability	Maximum 0.1% of span per year
Linear error	Negligible
EMC	In accordance to EN 61326-1:2013 (CE) In accordance to BS EN 61326-1:2013 (UKCA)
Range configurations	It is possible set the device by EVOMINI SET configuration kit (it is needed a PC with OS Windows).
Minimum span	20°C
Sensor error compensation	(±5°C) over two points
Measurement range	-50 ÷500°C
Maximum working barometric pressure of the sensing element	100bar Max. ('A' zone)
International protection marking (*) (*) According to IEC 60529	IP67
Connection body material	AISI 316L Stainless Steel
Sheet material	AISI 316L
Stem length L	150 mm Other lenghts availabloe on request
Sheath diameter d	Ø6 tapered a Ø4.4
Process connection (*) (*) Thread STANDARDS (CYL. GAS in accordance with UNI-ISO 228) (CON. GAS in accordance with UNI-ISO 7-1) (NPT in accordance with ANSI B 1.20.1)	1/4" GAS CIL 1/4" NPT male thread G 1/2"UNI ISO 228 1/2" NPT CLAMP 3/4" CLAMP 1 1/2" DIN11851 DN25
Type of connector	male 4-pin connector with M12x1 metal screw lock (in accordance with IEC 61076-2-101 STANDARDS)
Pt100 sensor accuracy	Class A up to 300°C according to IEC 751
Response time	<5s (according to IEC 751)
Option	On request adjustment on 1 or 2 points Extension cable in TPE with overmolded M12 connector (IP67). Available cable lengths: (3, 8 or 12)m (others on request)
Factory default	Range (0÷150)°C (4÷20)mA output Sensor break >21mA Sensor short-circuit <3.6mA
Weight	45g

ORDER CODES

EVOXF#		X				C* ¹	0150* ²		0100* ³	XX
Output		Min. range*	Max range*	Probe break	S/C probe	Process connection				
4÷20mA	M	0	150	Out 21mA	Out 3,6mA	1/4" GAS CIL	AD			
0÷20mA	I	000	+150	Out 3,6mA	Out 21mA	1/4" NPT	AF			
		* Other range on request				1/2" GAS CIL	AL			
		Ex. negative value				1/2" NPT	AN			
		-20	M20			CLAMP 3/4"	D1			
						CLAMP 1 1/2"	D2			
						DIN11851 DN25	D3			

*¹ ATX tube, Ø6 mm tapered to Ø4,4 mm (d=mm)

*² Length (L=mm). Others lenghts on request

*³ Immersions (l=mm). Others lenghts on request