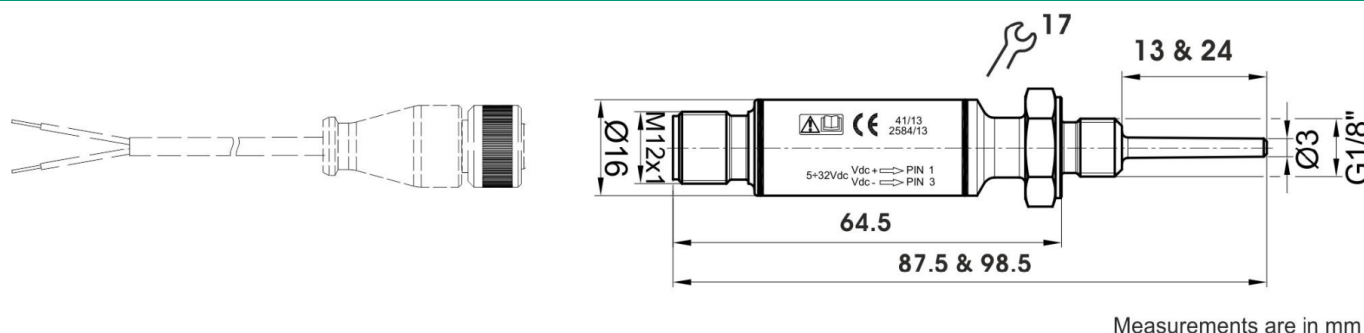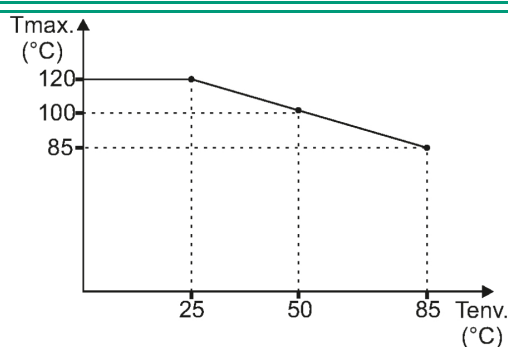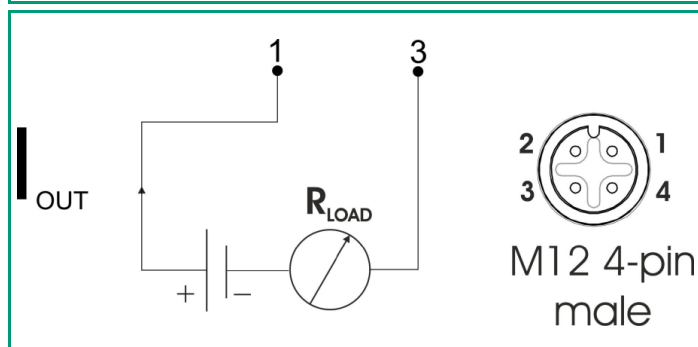# EvominiX TM

4÷20mA programmable compact temperature transmitter with metallic body

PC-configurable stainless steel temperature transmitter with integrated probe 1/8" and 1/4" male process connection. It comes in a metallic IP67 body with M12 output connection. It is particularly suited for measurements in fluids up to 120°C.

Measurements are in mm

M12 4-pin male

TECHNICAL SPECIFICATION

Ambient temperature	-40 ÷85°C
Operating humidity	0 ÷100%
Power supply	5.5 ÷32 Vdc (polarity protected)
Input/Output insulation	None
Sensor input signal filter (*) **(*) time to reach 90% of signal**	Configurable from 0.4 to 9.4 seconds

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TECHNICAL SPECIFICATION

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 (CE) In accordance to BS EN 61326-1 (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 ÷120°C
Connection body material	AISI 316L Stainless Steel
Type of connector	male 4-pin connector with M12x1 metal screw lock (in accordance with IEC 61076-2-101 STANDARDS)
Stem length L	13 mm 24 mm
Sheath diameter d	Ø 3,5 tapered conic to Ø 3 mm
Sheet material	AISI 316L
Maximum working pressure (*) **(*) unless otherwise specified, it refers to room temperature**	PN 100 BAR
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 1/8" GAS CIL. sec. UNI-ISO 228 1/8" NPT 1/4" NPT
Pt100 sensor accuracy	Class A up to 300°C according to IEC 751
Response time (*) **(*) test in water in accordance with IEC 751. Time taken to reach 63.2% of temperature step**	< 3,5 seconds
International protection marking (*) **(*) According to IEC 60529**	IP67
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	(4÷20)mA output Range (0÷100)°C Sensor break >21mA Sensor short-circuit <3.6mA
Weight	39g (L=13mm) 40g (L=24mm)

ORDER CODES

EVOXTM#			X					XX

Process connection		Output		Min. range*		Max range*		Probe break		S/C probe	
1/8" GAS CIL L= 13mm	**1**	4÷20mA	**M**	0	**000**	+100	**100**	Out 21mA	**X**	Out 3,6mA	**X**
1/8" GAS CIL L= 24mm	**2**	20÷4mA	**I**					Out 3,6mA	**B**	Out 21mA	**A**
1/8" NPT L= 13mm	**5**										
1/8" NPT L= 24mm	**6**										

* Other range on request
Ex. negative value

-20	**M20**

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