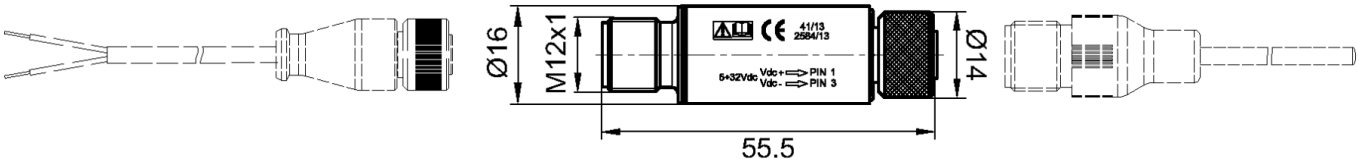
EVOXCM

Rev. 1 - 10/06/2022

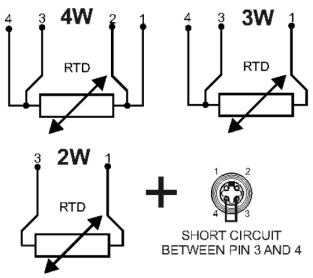
EvominiX CM

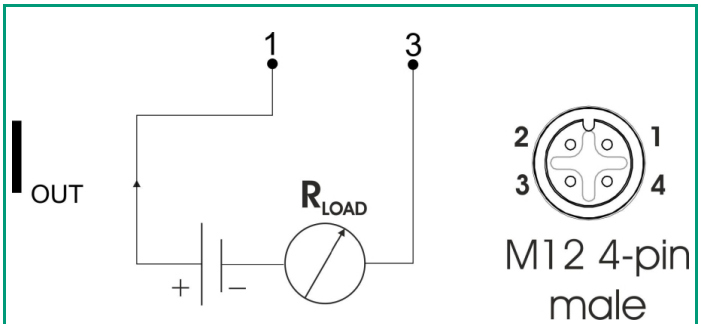
4÷20mA programmable temperature signal converter with metallic body

PC-configurable compact temperature signal converter for Pt100 and Pt1000 probes.
Its integrated connections allow to mount the transmitter directly on the sensor.
It comes in a metallic IP67 body with M12 connections in both ends.
It is compatible with Italcoppie TRM and TRC probe series.



misure in mm \ measurements are in mm





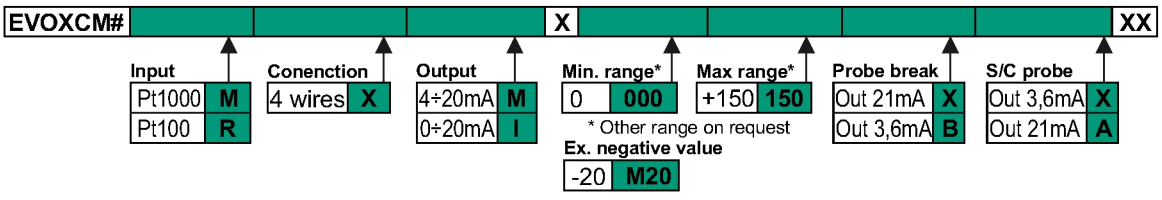
ITALCOPPIE SENSORI srl
Via A. Tonani, 10 - Fraz. S. Giacomo al Campo
26030 Malagnino (CR) - Italy
www.italcoppie.it

WE SENSE TEMPERATURE

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 (α= 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	-200 ÷800°C
International protection marking (*) **(*) According to IEC 60529**	IP67
Connection body material	AISI 316L Stainless Steel
Type of connector	female 4-pin connector (INPUT SENSOR), 4-pin male connector (OUTPUT), both with M12x1 metal screw lock (in accordance with IEC 61076-2-101)
Response time	<300 ms (63%)
Factory default	Range (0÷150)°C (4÷20)mA output 4-wire Pt100 input Sensor break >21mA Sensor short-circuit <3.6mA
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)
Weight	22g

ORDER CODES



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