EVOMINI + D

COMPACT PROGRAMMABLE TEMPERATURE TRANSMITTER WITH METALLIC BODY, CONNECTION FOR FOOD THERMOWELLS AND 4-20mA OUTPUT
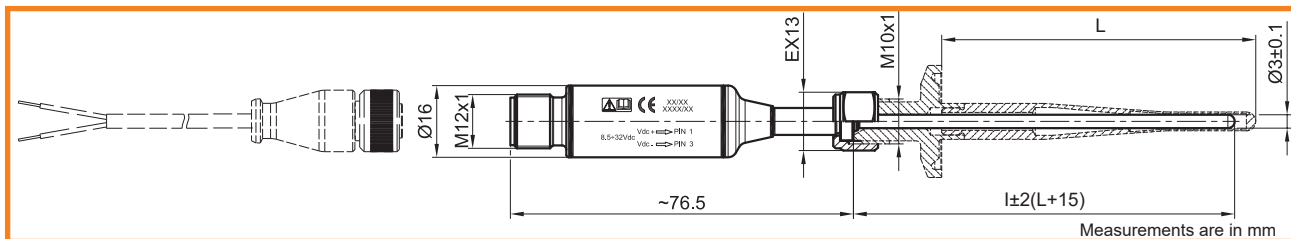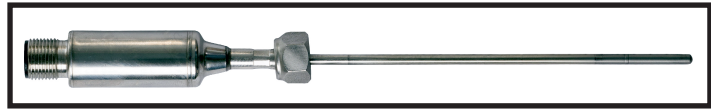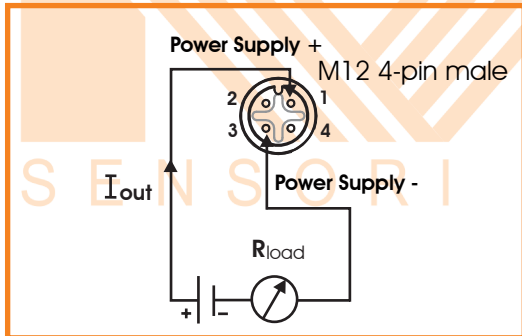
ISO 9001:2000

EVOMINI +

Trasmitter and probe are integrated in one only device; the TWF thermowells serie (DIN11851 and Clamp) can be used for the process connection. This device is very useful in food, chemical and pharmaceutical industry.

Output connection

Power Supply +
M12 4-pin male
2 1
3 4
I out
Power Supply -
R load
+ −

Ø16
M12x1
Vdc+ ⟹ PIN 1
8,5÷32Vdc
Vdc- ⟹ PIN 3
EX13
M10x1
L
Ø3±0.1
~76.5
I±2(L+15)

Measurements are in mm

TECHNICAL DATA

Body:
Stainless steel AISI 316L

Probe type:
Stainless steel AISI 316L, diameter 3mm

Process connection:
Through the TWF serie thermowells (excluded TWF2)

Connection:
M12x1 male in accordance to VDE0627 (output connection)

Sensor:
RTD Pt100 class A up to 300°C in accordance to IEC751
Range: -50÷500°C
Tmax. Electronic:80°C

Sensor break monitoring:
Selectable:
Upscale (>21.0 mA) or Downscale (<3.6 mA) action

Sensor short-circuit:
Fixed to Downscale (<3.6 mA) action

Output:
Signal: 4÷20mA
Permissible load: 700Ω @ 24Vdc [RLo= (Vsupply-8,5)/0,020]
Response time (90%): <50ms

Isolation In - Out:
Non-isolated

Power supply:
8,5÷32Vdc (polarity protected)

Environment conditions:
Temperature: -40÷80°C (for electronic part)
Relative Humidity: 0÷100%
EMC: in accordance to EN 61326

Degree of protection:
IP65 and IP67 in accordance to IEC60529

Accuracy:
Transmitter: Max. value between ±0,2°C and ±0,2% of span
Sensor: class A in accordance to IEC751

Temperature influence (Deviation from 20 °C):
Max. value between ±0,3°C / 25°C and ±0,3% of span / 25°C

Supply voltage influence:
Negligible

Range configurations:
It is possible set the input temperature range (span) by the EVOMINI+SET configuration kit (it is needed a PC with OS Windows).
Zero adjustments: any value between -50°C to +50°C.
Minimum span: 50°C or 20°C (if the zero point is one of these values: -40°C, -20°C, 0°C, 20°C, 40°C, the minimum span is 20°C, otherwise is 50°C).
Sensor error compensation: over 2 points (max 1% of span)

Factory setting:
0÷150°C / sensor break >21 mA (Upscale)

Option:
On request, adjustment on 1 or 2 points
Extension cable with overmoulded M12 connector (IP67).
Lenght available on stock: 3/ 8 / 12 m (others lenghts on request)

CODE TO ORDER:

EVOMINI+D#		3	M	X

I (mm)	L (mm)
50	0035
75	0060
115	0100
165	0150
215	0200
265	0250
365	0350

Lenght L= (mm)

EXTENSION CABLE:

PRV #		AG	C	XXX

3M	3000
8M	8000
12M	M120

EVM+07UK - REV 2
APRIL 2017

Note: The shown executions can be produced upon request for a minimum quantity to be order. We reserve the right for technical modifications without prior notice.

italcoppie
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SENSORI