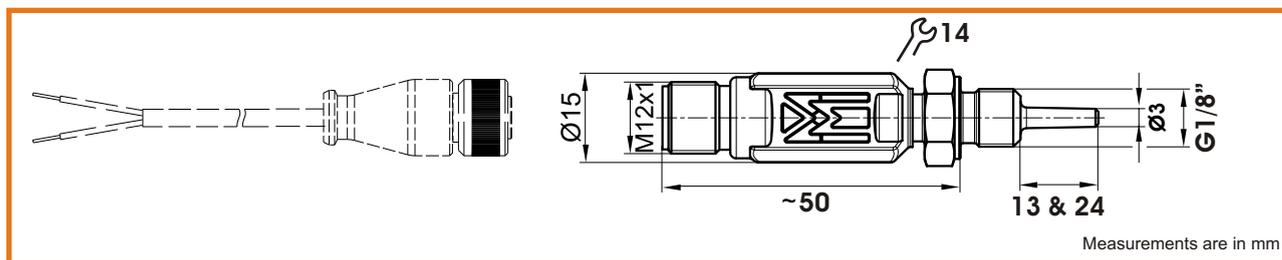
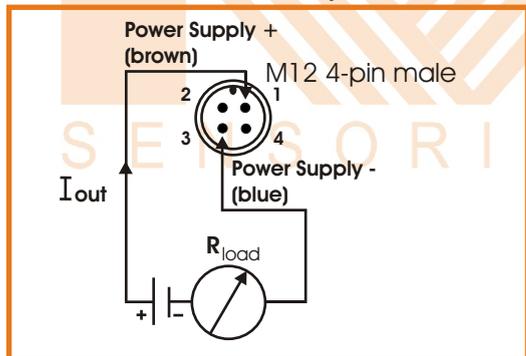


Compact temperature transmitter with PC-PROGRAMMABLE range, moulded on connector (IP67) with M12 male thread, 4-20mA output, 1/8" straight gas male thread process connection. Suitable for measurement in fluids up to 100°C.

COMPACT EVOMINI + COMPACT AND PROGRAMMABLE TEMPERATURE TRANSMITTER WITH 4-20mA OUTPUT

EVOMINI +

Output connection



TECHNICAL DATA

Body:

Thermoplastic material

Stem dimensions:

Length: 13mm & 24mm

Diameter: Ø3mm

Probe type:

Thermowell AISI 316L

Process connection:

1/8" straight gas male thread in accordance to UNI ISO 228

Connection:

M12x1 male in accordance to VDE0627 (output connection)

Sensor:

RTD Pt100 class A in accordance to IEC751

Range: -50 ÷ 100°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 plastic body)

Relative Humidity: 0 ÷ 100%

EMC: in accordance to EN 61326

Degree of protection:

IP65 and IP67 in accordance to IEC60529

Accuracy:

Transmitter: Max. of ±0,2°C or ±0,2% of span

Sensor: class A in accordance to IEC751

Temperature influence (Deviation from 20 °C):

Max. of ±0,3°C / 25°C or ±0,3% of span / 25°C

Supply voltage influence:

Negligible

Range configurations:

It is possible set the input temperature range (span) between -50°C to 100°C 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 (if the zero value is set between one of these values: -40°C, -20°C, 0°C, 20°C, 40°C, the minimum span is 20°C rather than 50°C).

Sensor error compensation: over 2 points (max 1% of span)

Response time:

<3,5 sec. (Test in water to IEC751- time for reaching 63,2% of thermal gap)

Option:

On request, adjustment on 1 or 2 points

CODE TO ORDER:

EVOMINI+TP#		M	X
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1/8" GAS CIL L= 13mm	1
1/8" GAS CIL L= 24mm	2

Process connection and length L = (mm)

EVM+02UK - REV 0
MAY 2012

HEMATIK

Länna, S-142 50 SKOGÅS
Stockholm, Sweden

Ordertel 08-771 00 04
Orderfax 08-771 62 00

Växel 08-771 02 20
Teknisk 08-771 35 80

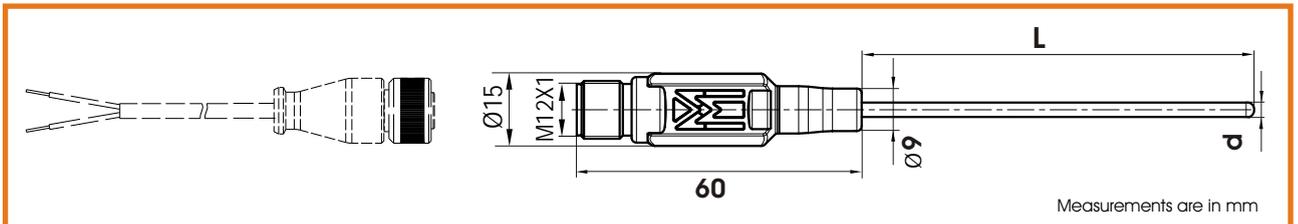
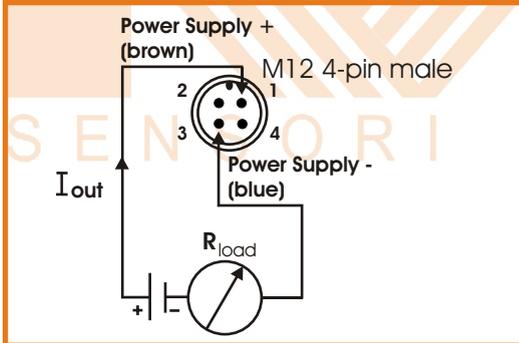
Email info@hemomatik.se
Internet www.hemomatik.se

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.

Temperature transmitter with mineral insulated cable probe (MgO), PC-PROGRAMMABLE range, moulded on connector (IP67) with M12 thread and 4-20mA output. This device can be a reliable alternative to common assemblies with connection head.

GRUPPO ITALCOPPIE
M.I.C. EVOMINI+
PROGRAMMABLE TEMPERATURE TRANSMITTER WITH MINERAL INSULATED CABLE PROBE AND 4-20mA OUTPUT

Output connection



CARATTERISTICHE TECNICHE

Body:

Thermoplastic material

Stem dimensions:

Length: 150mm & 250mm (other lengths available on request)
 Diameter: Ø3mm & Ø6mm

Probe type:

Compact mineral insulated cable AISI 316L s.s.

Probe minimum bending radius:

Three-times the outer diameter
 (Except the sensing tip which length is 30mm)

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 [R_{Lo} = (V_{supply} - 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 plastic body)
 Relative Humidity: 0 ÷ 100%
 EMC: in accordance to EN 61326

Degree of protection:

IP65 and IP67 in accordance to IEC60529

Accuracy:

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

Temperature influence (Deviation from 20 °C):

Max. of ±0,3°C / 25°C or ±0,3% of span / 25°C

Supply voltage influence:

Negligible

Range configurations:

It is possible set the input temperature range (span) between -50°C to 500°C 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 (if the zero value is set between one of these values: -40°C, -20°C, 0°C, 20°C, 40°C, the minimum span is 20°C rather than 50°C).

Sensor error compensation: over 2 points (max 1% of span)

Response time:

Diameter 3mm < 3,5 sec., diameter 6mm < 13sec. (Test in water to IEC751- time for reaching 63,2% of thermal gap)

Option:

On request, adjustment on 1 or 2 points

CODE TO ORDER:

EVOMINI+I #	M			X
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Ø 3	-3--
Ø 6	-6--

Diameter d= (mm)

100	0100
150	0150
250	0250
350	0350
500	0500
750	0750
1000	1000

Length L= (mm)

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.

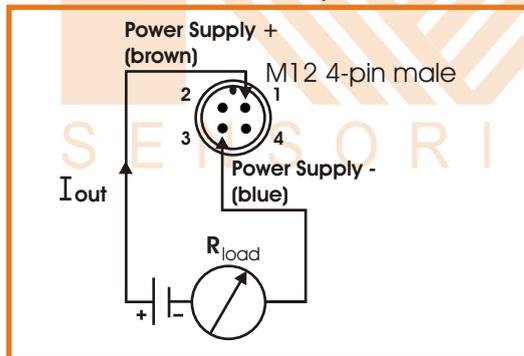
EVM+01UK - REV 0
 MAY 2012

Temperature transmitter with PC-PROGRAMMABLE range. The integrated connections allow to mount the transmitter directly on the sensor. This device it is compatible with TRM and TRC series.

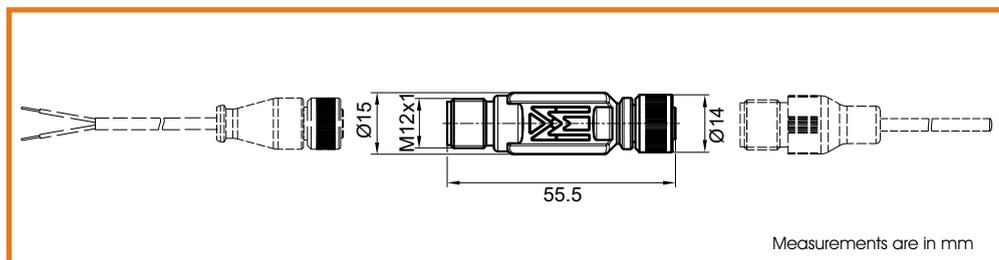
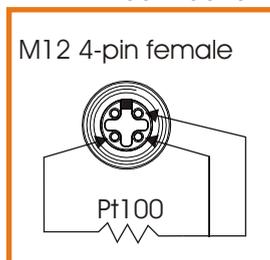
EVOMINI+ TRANSMITTER

PROGRAMMABLE TEMPERATURE TRANSMITTER WITH INTEGRATED M12 CONNECTORS AND 4-20mA OUTPUT

Output connection



Input sensor connection



TECHNICAL DATA

Body:

Thermoplastic material

Probe type:

Connection compatible with RTD's TRM and TRC series

Connection:

M12x1 male in accordance to VDE0627 (output connection)
M12x1 female in accordance to VDE0627 (input connection Pt100)

Sensor:

RTD Pt100 ($\alpha = 0,00385$) 3 wire connection
Range: $-50 \div 800^{\circ}\text{C}$

Sensor break monitoring:

Selectable:
Upscale ($>21.0 \text{ mA}$) or Downscale ($<3.6 \text{ mA}$) action

Sensor short-circuit:

Fixed to Downscale ($<3.6 \text{ mA}$) action

Output:

Signal: $4 \div 20 \text{ mA}$
Permissible load: $700 \Omega @ 24 \text{ Vdc}$ [$R_{Lo} = (V_{supply} - 8,5) / 0,020$]
Response time (90%): $<50 \text{ ms}$

Isolation In - Out:

Non-isolated

Power supply:

$8,5 \div 32 \text{ Vdc}$ (polarity protected)

Environment conditions:

Temperature: $-40 \div 80^{\circ}\text{C}$ (for plastic body)
Relative Humidity: $0 \div 100\%$
Vibrations: in accordance to IEC 68-2-6, test Fc, $84-2000 \text{ Hz}$, 10 g
EMC: in accordance to EN 61326

Degree of protection:

IP65 and IP67 in accordance to IEC60529

Accuracy:

Max. of $\pm 0,2^{\circ}\text{C}$ or $\pm 0,2\%$ of span

Temperature influence (Deviation from 20°C):

Max. of $\pm 0,3^{\circ}\text{C} / 25^{\circ}\text{C}$ or $\pm 0,3\%$ of span / 25°C

Sensor wire influence:

Negligible, with equal wire resistance

Supply voltage influence:

Negligible

Range configurations:

It is possible set the input temperature range (span) between -50°C to 800°C by the EVOMINI+SET configuration kit (it is needed a PC with OS Windows).

Zero adjustments: any value between -50°C to $+50^{\circ}\text{C}$.

Minimum Span: 50°C (if the zero value is set between one of these values: -40°C , -20°C , 0°C , 20°C , 40°C , the minimum span is 20°C rather than 50°C).

Sensor error compensation: over 2 points (max 1% of span)

CODE TO ORDER:

EVOMINI+C#	R	M	X
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With a PC, it allows to configure all the functions parameters through the USB interface.

CONFIGURATION KIT FOR EVOMINI+ PRODUCTS

ISO 9001:2000



TECHNICAL DATA

Interface:

PC connection: through the USB port with connection cable included in the kit
Evomini+ connection: through extension cable with M12 female connector included in the kit
Note: The transmitter is powered from the USB interface

Programming software:

Evomini+ Configurator for Windows® 2000(SP3), XP(SP2), VISTA(32 and 64 bit), 7(32 and 64 bit)

Configurable parameters:

Temperature range (-50°C..800°C), measurement unit (°C/°F/°K), sensor break monitoring (Up scale / Down scale), identifying name of the transmitter (16 alphanumeric characters), input sensor error compensation over one or two points.

Supported languages:

Italian, English, French, German, Swedish

Packaging:

Included in the kit: 1x interface USB, 1x connection cable between USB port and interface, 1x connection cable between interface and Evomini+ transmitter, 1x memory-stick USB with installation software, 1x introductory manual for software installation and USB

CODE TO ORDER:

EVOMINI+SET

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.

EVM+SETUK - REV 0
MAY 2012