

TF-M/E-G1/2

- Pt 100 (RTD) temperature probe
- continuous temperature acquisition
- probe length up to 1 m
- housing material brass or stainless steel

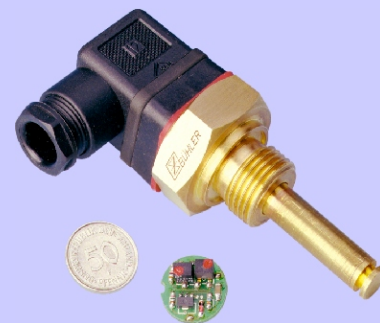
TF-M-G1/2



MK2-G1/2/EK2-G1/2

- analogue output 4-20 mA
- continuous temperature acquisition
- almost variable log cable connections between sensor and control unit
- probe length up to 1 m
- housing material brass or stainless steel

MK2-G1/2



Temperature probe Pt 100 with spring

TF-M-VAL

Temperature probe Pt 100 (RTD) with spring

- Pt 100 (RTD) temperature probe
- continuous temperature acquisition
- integrated spring for a variable probe length



Technical data

Temperature probe TF with Pt 100

Type design
 material probe
 max. operating pressure
 connector
 operating temperature
 lengths

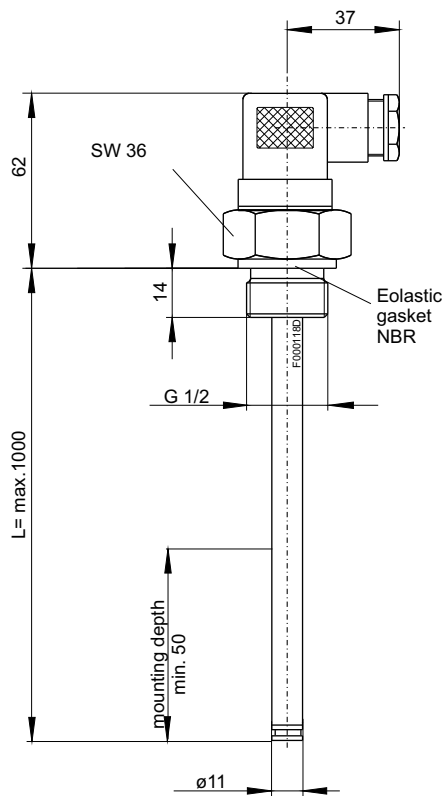
TF-M-G1/2	TF-E-G1/2
MS	VA
brass	1.4571
5 bar	10 bar
G1/2	G1/2
-40 °C to +100 °C	
280, 370, 500 (standard)	
variable up to max. 1000	

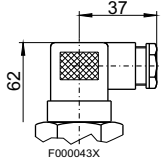
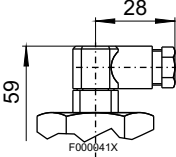
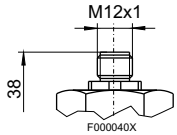
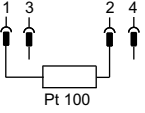

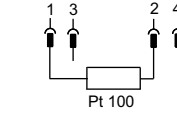
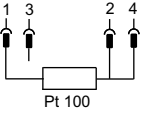
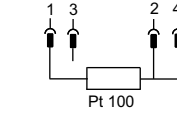

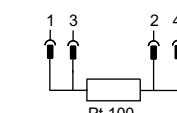
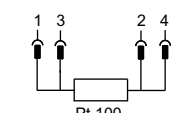
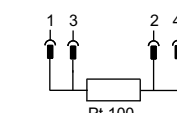
Temperature sensor

sensor element Pt 100 class, B DIN EN 60751
 tolerance ±0,8 °C
 sensor wiring 2, 3 or 4 lead

Basic values of the measuring resistors Pt 100

°C	Ohm
0	100,00
10	103,90
20	107,79
30	111,67
40	115,54
50	119,40
60	123,24
70	127,07
80	130,89
90	134,70
100	138,50



Connector*	M3 3 pol. + PE (DIN EN 175301-803) IP 65 PG 11	GS4 4 pol. IP 65 PG 7	M12 (base) 4 pol. IP 67**
protection class cable connection *other connectors on request			**with casted connector head 
Standard pin assignment			
2 - lead			
3 - lead			
4 - lead			

Product code for Temperature probe TF

G1/2 PT100

TF-M for design MS
 TF-E for design VA

Design
 MS
 VA

Connector
 M3
 M12
 GS4 only for 4-lead-wiring

Length (max. 1000 mm)
 280
 370
 500
 Variable (please note)

Switch form
 2L = 2 - lead
 3L = 3 - lead
 4L = 4 - lead

Example for order

You need: Temperature probe brass design, with connector M3, length L= 520 mm, PT 100 in 2-lead circuit, operating pressure 2 bar

You order: Temperature probe TF-M-G1/2-MS-M3-PT100-2L / 520

Technical data

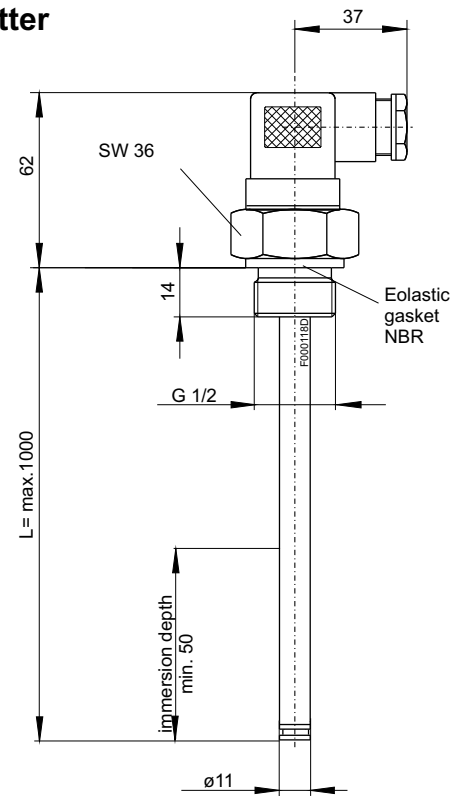
MK2/ EK2 with temperature transmitter

Type	MK2-G1/2	EK2-G1/2
design	MS	VA
material probe	brass	1.4571
max. operating pressure	5 bar	10 bar
connector	G1/2	G1/2
operating temperature	-20 °C to +100 °C	
lengths	280, 370, 500 (standard) variable up to max. 1000	

Temperature transmitter

sensor element	Pt 100 class B DIN EN 60751
tolerance Pt 100	±0,8 °C
operating voltage (U _B)	10 - 30 V DC
measuring range*	0 °C to +100 °C
output*	4 - 20 mA
load Ω max.	(U _B - 7,5 V) / 0,02 A

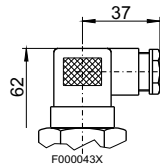
*other measurement ranges and outputs on request



Connector*

	M3
max. voltage	30 V DC
protection class	IP 65
cable connection	PG 11

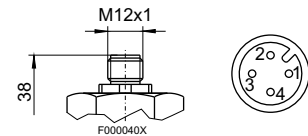
*other connectors on request



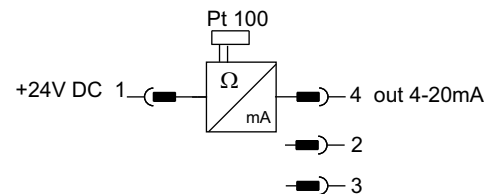
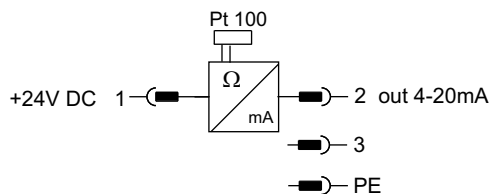
M12 (base)

max. voltage	30 V DC
protection class	IP 67**

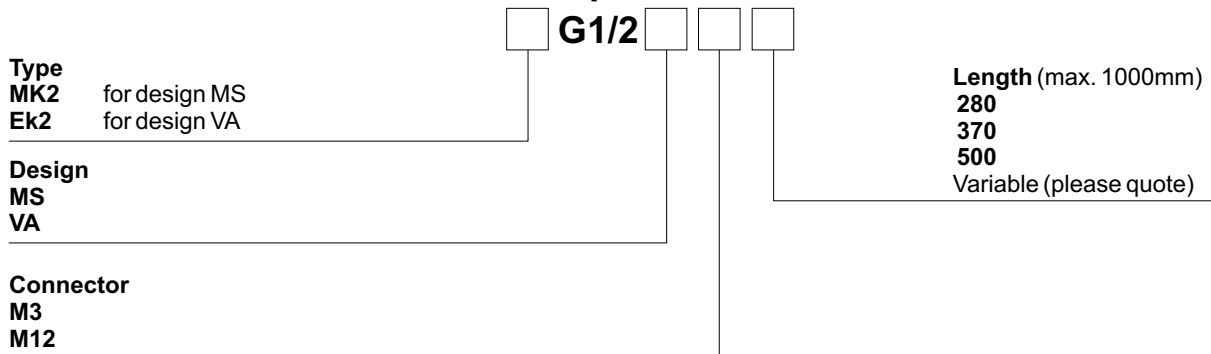
**with casted connector head



Standard pin assignment



Product code for temperature transmitter MK2 / EK2



Example for order

You need: Temperature transmitter brass design, with connector M3, output 0-100 °C = 4-20 mA
length L= 520 mm, operating pressure 2 bar

You order: Temperature transmitter MK2-G1/2-MS-M3 / 520

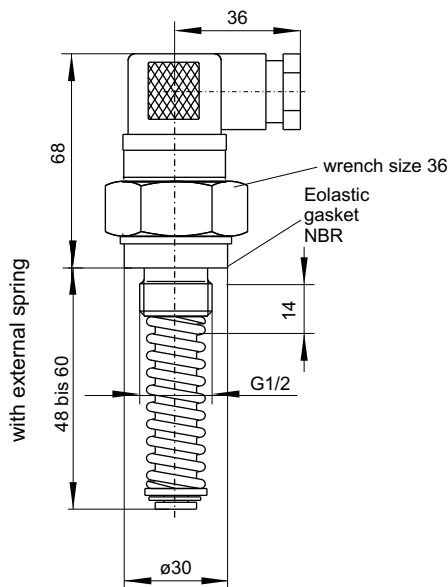
Technical data

Temperature probe Pt 100 with spring TF-M-VAL-G1/2

Design with external spring

length 48 - 60 mm

material probe aluminium anodized / spring steel
 gasket NBR
 max. operating pressure 1 bar
 fitting G1/2
 fastening torque 25 Nm
 operating temperature -40 °C to +100 °C

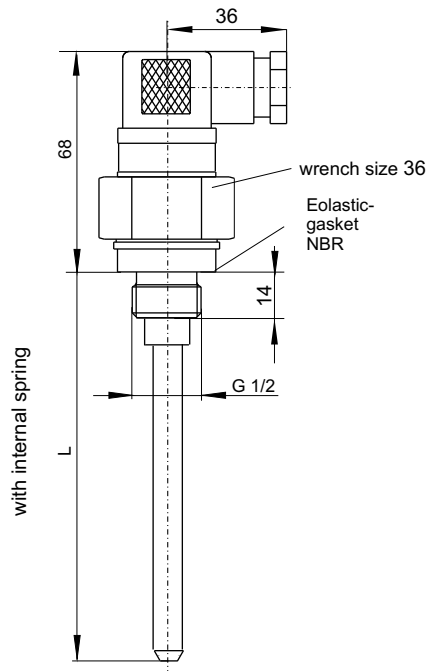


Design with internal spring

lengths L spring deflection
 210 206-215 mm
 330 325-334 mm

material probe brass
 gasket NBR
 max. operating pressure 1 bar
 fitting G1/2

operating temperature -40 °C to +100 °C



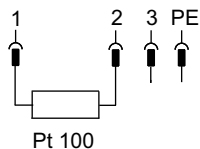
Temperature sensor

sensor element Pt 100 class B, DIN EN 60 751
 tolerance $\pm 0,8^{\circ}\text{C}$
 switching form 2 - lead
 basic values see chart on page 2

Connector* M3 3 pol. + PE (DIN EN 175301-803)
 protection class IP 65
 cable connector PG 11

*on request other connectors

Standard pin assignment



Order information

Temperature probe TF-M-VAL with Pt 100 and spring

Part No.	Length	Type
18 92 599	48-60 mm	TF-M-PT100-VAL-M3/60
18 94 599	206-215 mm	TF-M-PT100-VAL-M3/210
18 95 799	325-334 mm	TF-M-PT100-VAL-M3/330

Example for order:

You need: Temperature probe with Pt 100 with spring, length 48-60 mm
 You order: Part No. 18 92 599 temperature probe TF-M-PT100-VAL-M3/60