

По вопросам продаж и поддержки обращайтесь:

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Измерители температуры TF-M/E-G1/2 Buhler

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

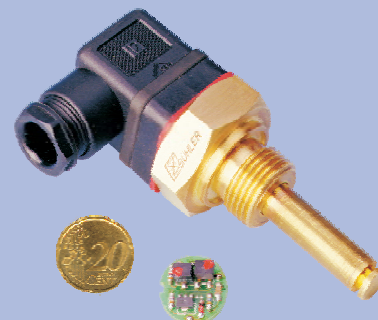
TF-M-G1/2



MK2-G1/2 / EK2-G1/2

- Analog output 4-20 mA
- Continuous temperature acquisition
- Most lengths of 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
MS

brass
5 bar
G1/2
-40 °C to +100 °C
280, 370, 500 (standard)
variable up to max. 1000 mm

TF-E-G1/2
VA

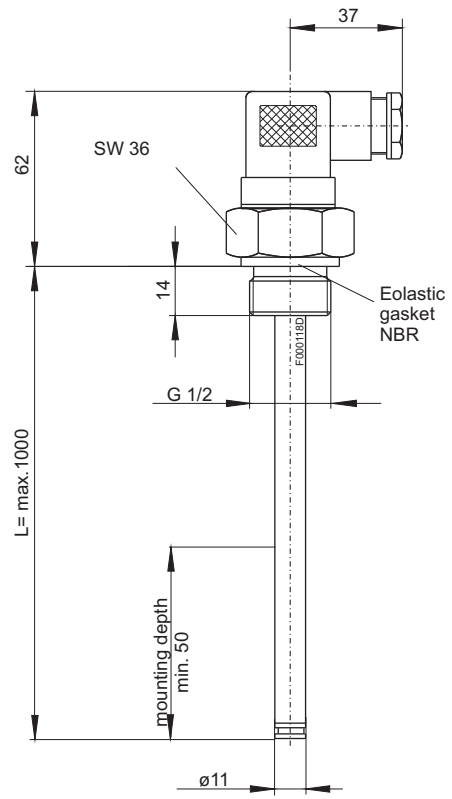
1.4571
10 bar

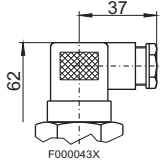
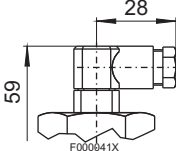
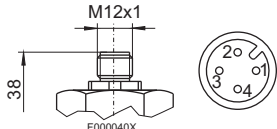
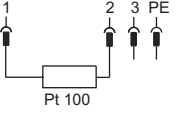
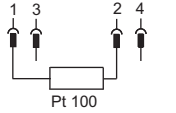
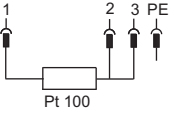
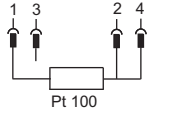
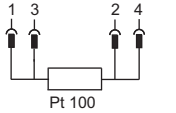
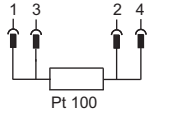
Temperature sensor

sensor element Pt 100 class, B DIN EN 60751
tolerance $\pm 0,8$ °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 design	MK2-G1/2 MS	EK2-G1/2 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 mm	

Temperature transmitter

operating voltage (U _B)	10 - 30 V DC
measuring range*	0 °C to +100 °C
tolerance	± 0,8 °C ± 1%FS**

Analogue output

output	4 - 20 mA
load Ω max.	(U _B - 7,5 V) / 0,02 A
tolerance	± 1%FS***

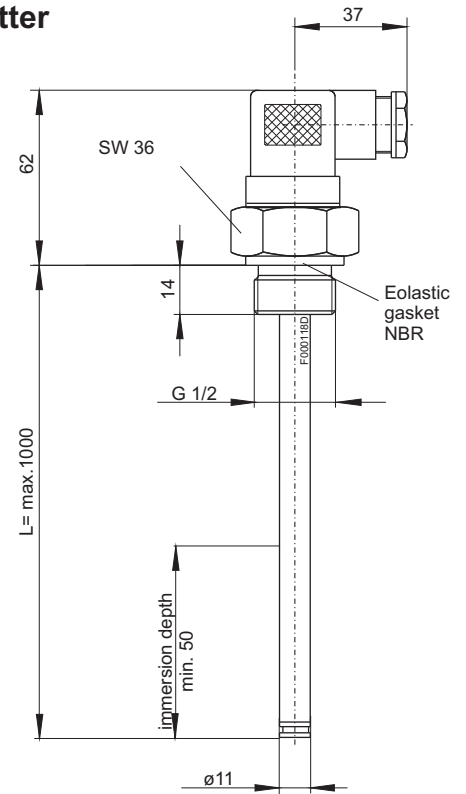
Sensor element

sensor element	Pt 100 class B DIN EN 60751
output Pt 100	± 0,8 °C

* other measuring ranges and outputs on request

** Consisting of sensor element and analog output

*** measuring range (Max - Min)



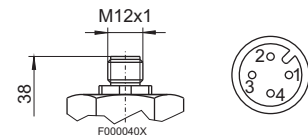
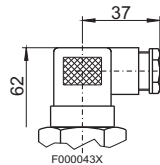
Example for actual medium temperature 50 °C: Deviation Pt100 ±0,8 °C which means tolerance 49,2 °C - 50,8 °C; Deviation analog output ± 1%FS which means ± 1K; Total tolerance: 48,2 °C - 51,8 °C

Connector*

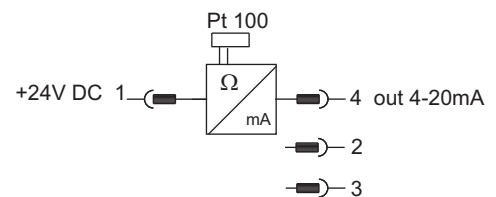
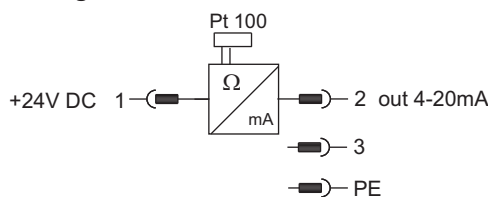
	M3	M12 (base)
max. voltage	30 V DC	30 V DC
protection class	IP 65	IP 67**
cable connection	PG 11	

*other connectors on request

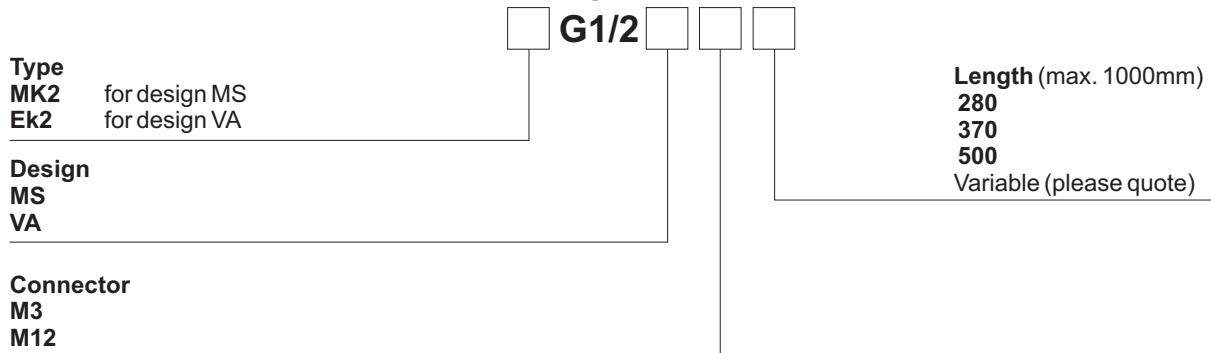
**with casted connector head



Standard pin assignment



Product code for temperature transmitter MK2 / EK2



Example for order

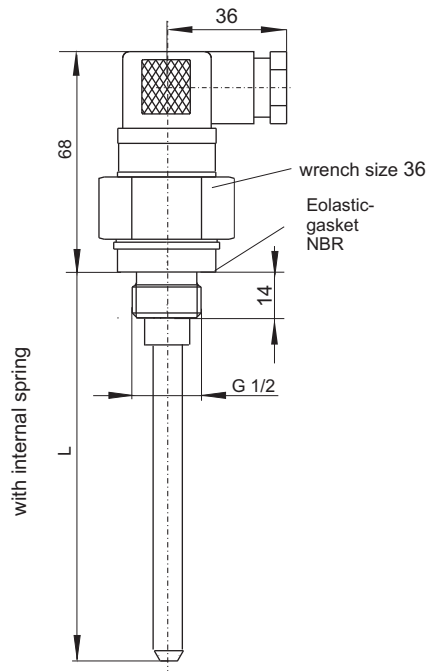
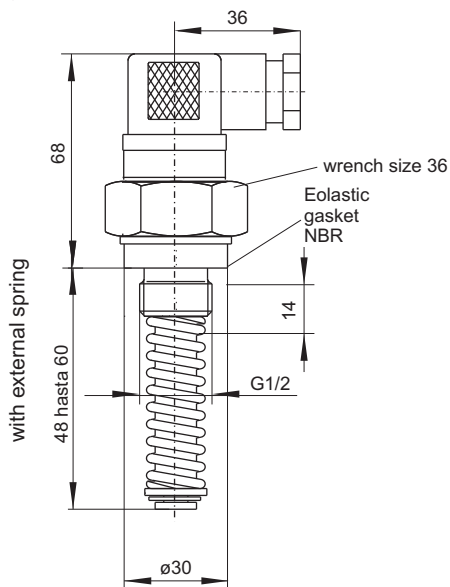
You need: Temperature transmitter brass design, with connector M3, output 0-100 °C = 4-20 mA
length L= 520 mm, operating pressure 2 bar

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	Design	with internal spring
length	48 - 60 mm	lengths	L spring deflection 210 206-215 mm 330 325-334 mm
material probe	aluminium anodized / spring steel	material probe	brass
gasket	NBR	gasket	NBR
max. operating pressure	1 bar	max. operating pressure	1 bar
fitting	G1/2	fitting	G1/2
fastening torque	25 Nm		
operating temperature	-40 °C to +100 °C	operating temperature	-40 °C to +100 °C



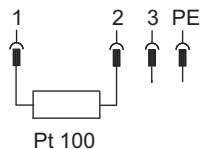
Temperature sensor

sensor element	Pt 100 class B, DIN EN 60 751
tolerance	± 0,8°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

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