

Temperature transmitter MK2, EK2



Fluidcontrol

The temperature-based change in the viscosity of hydraulic and lubricating oils requires closely monitoring and stabilising the medium temperature. Furthermore, close temperature monitoring impacts the life of the oils. The oil tank is typically accepted as the control point for the oil temperature, which generally provides an informative mean value. It may further be helpful to also monitor segments or individual devices in a system.

The values determined by the measuring points must be transmitted to the system control in a compliant manner. However, for safety reasons it is advisable to at least display the current oil temperature on the oil tank.

Bühler Technologies GmbH's comprehensive range of temperature monitoring products is specially designed for use in hydraulics and lubrication technology.

Analogue output 4–20 mA

Continuous temperature measurement

Nearly any length of cable connection between sensor and control unit

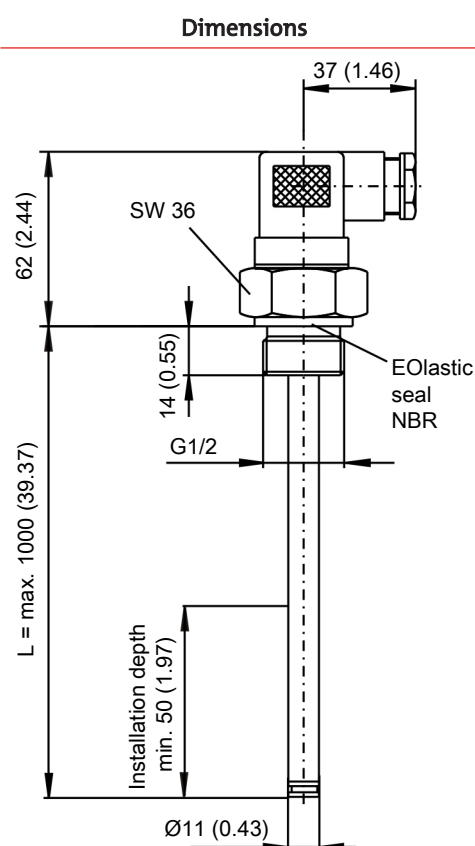
Sensor length up to 1 m (3.3 ft)

Brass or stainless steel housing



Technical Data MK2/EK2

Model	MK2	EK2
Version:	MS	VA
Probe material:	Brass	1.4571
Max. operating pressure:	5 bar (72.5 psi)	10 bar (145 psi)
Connection:	G1/2	G1/2
Medium temperature:	-20 °C to +80 °C (-4 °F to 176 °F)	
Ambient temperature:	-20 °C to +80 °C (-4 °F to 176 °F)	
Lengths:	280 (11.02"), 370 (14.57"), 500 (19.69") (standard) variable to max. 1000 mm (39.37")	
Sensor element:	Pt100 Class B, DIN EN 60751	
Tolerance Pt100:	± 0.8 °C (1.4 °F)	
Operating voltage (U _B):	10-30 V DC	
Measuring range*:	0 °C to +100 °C (32 °F to 212 °F)	
Output*:	4–20 mA	
Max. burden Ω:	(U _B - 7.5 V)/0.02 A	



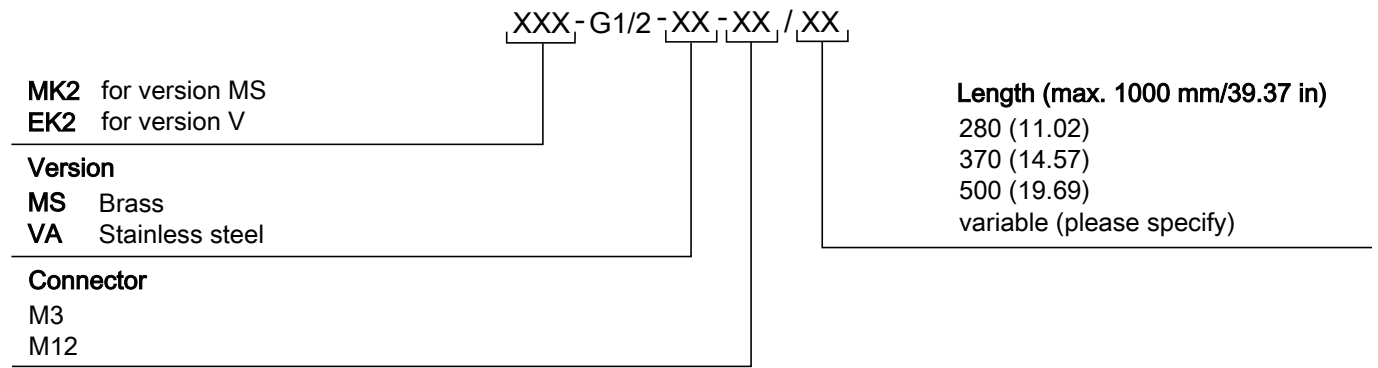
*Other measuring ranges and outputs available on request.

Standard Pin Assignment MK2/EK2

Connector:	M3 valve connector	M12 plug A coded
Dimensions:		
Number of pins:	3-pin + PE	4-pin
DIN EN:	175301-803	61076-2-101
Voltage max.	30 V DC	30 V DC
IP rating:	IP65	IP67**
Cable fitting:	PG 11	
Standard pin assignment:		

**with IP67 cable box screwed on
Other connectors available on request

Model Key MK2/EK2



Ordering example

You need: Temperature transmitter brass version, with M3 plug connection, output 0–100 °C (32–212 °F)= 4–20 mA, length L= 520 mm (20.47"), operating pressure 2 bar (29 psi)

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