

# Thermolog MK2 - EK2 Temperature sensor



One parameter to minimize the operating cost of hydraulic and lube systems is to prolong the life of the fluid itself. The continuous and precise control of fluid temperature within an acceptable span contributes significantly to this objective.

Modern process control systems cope with this problem by regulating the operating temperature within a narrow span if they receive precise signals with a low response time.

The Thermolog transmitter measures the temperature and responds to changes quickly and accurately. Changes are output using a 4 to 20 mA signal suitable for many controllers.

The Thermolog MK2 can be mounted to the tank top, the tank wall fitted into pipework by means of a standard tube fitting.

The unit consists of two modules which can be separated from each other. The "wet" part remains at the reservoir whereas the "dry" part can be removed for inspection. This eliminates the need to drain the reservoir or pipework for maintenance.

A DIN or a M12 cable connector is available optional. The sensor is available in either brass or stainless steel.

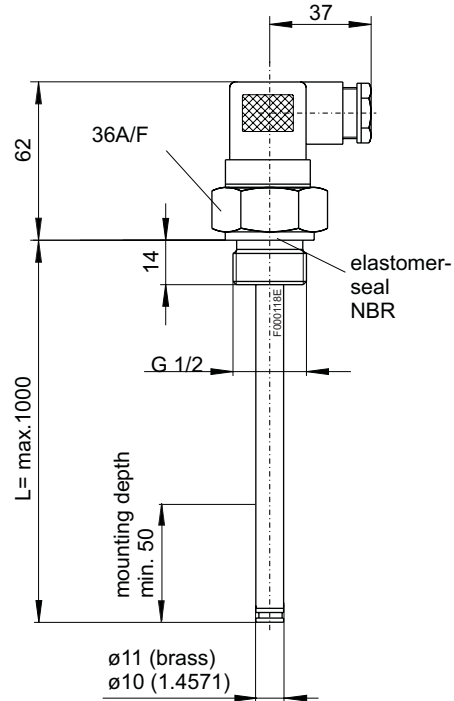
- **Rugged design**
- **Electrical insert easy to remove**
- **DIN or optional M12 connector**
- **Elastomer seal fitted as standard**
- **DIN connector allows to adjustment of cable orientation in 90 ° steps**

## technical data

types	MK2 and EK2
temperature sensor	PT 100 class B DIN / IEC 751
measuring range	-0 °C to +100 °C
max. length of probe	1000 mm
operating voltage (UB)	10 - 30 V DC
output	4 - 20 mA (0 °C = 4 mA) (100 °C = 20 mA)
max. load	$= (UB - 7,5 \text{ V}) / 0,02 \text{ A}$
max. operating temperature	-20 °C to +100 °C
storage temperature	-40 °C to +100 °C

### material

probe	type MK 2 = brass type EK 2 = 1.4571 stainless
max. operating pressure	Typ MK2 = 5 bar Typ EK2 = 10 bar

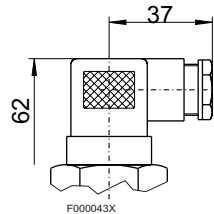


### connectors

protection class  
cable gland  
other connectors  
upon request

**M3**  
3 pol. + PE  
DIN 43650

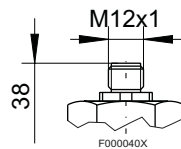
IP 65  
PG 11



**M12 (socket)**  
4pol.

IP 67\*\*  
PG 7\*\*

\*\* with fixed plug



max. voltage

230 V AC/DC

24 V DC

## order information

part-no. of the basic version, L=variable

with connectors	M3	M12 (with socket and plug)	length
MK2	1122299	1124299	L = ... mm
EK2	1122399	1124399	L = ... mm

### order information:

you need : Temperature sensor with connector type M3, length L= 520 mm, operating pressure 2 bar  
you order : part-no. 1122299 Temperature sensor Thermolog MK2-M3-L=520