



## Technical Information

**FAG**

Rolling Bearings

TI No. WL 80-51 E

November 2000

## Temperature measuring instrument TEMP.MG175830

This handy device displays values between  $-60\text{ }^{\circ}\text{C}$  and  $+1000\text{ }^{\circ}\text{C}$  ( $-75\text{ }^{\circ}\text{F}$  and  $+1830\text{ }^{\circ}\text{F}$ ).

The surface temperature sensor FAG TEMP.MG175830.F that is part of the delivery scope can be used for a measuring range of  $-60\text{ }^{\circ}\text{C}$  to  $+300\text{ }^{\circ}\text{C}$  ( $-75\text{ }^{\circ}\text{F}$  to  $+570\text{ }^{\circ}\text{F}$ ).

The instrument is suitable for temperature measurements on

- rolling bearings, housings and lubricating systems for operation monitoring
- heated rolling bearings and parts to be fitted during mounting

The microprocessor-controlled measuring instrument has a one-line display (digits

are 14 mm high). Its foil keyboard offers the following functions:

- On/Off
  - Hold (hold measured value on display)
- Additional functions:
- Low Bat display (battery voltage)
  - Automatic switch-off (Auto-OFF) after 14 min
  - Switching from  $^{\circ}\text{C}$  to  $^{\circ}\text{F}$



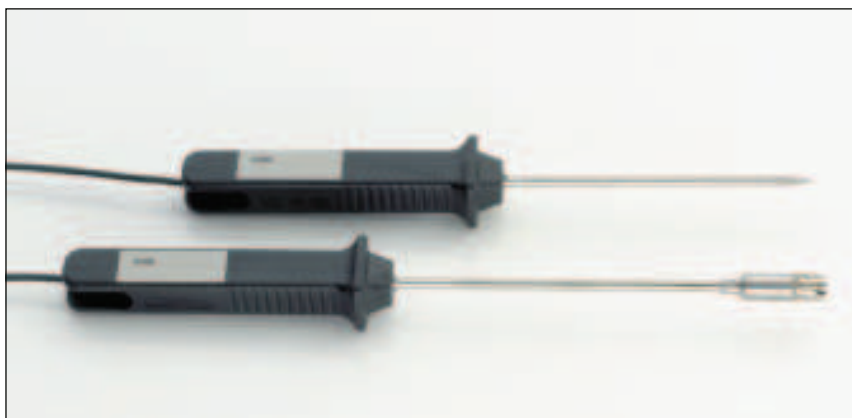


## Technical data

Measuring range	-60 to +1000 °C (-75 to +1830 °F)
Resolution	0.1 °C/1 °C (0.1 °F/1 °F) automatic conversion of resolution from 0.1 °C (0.1 °F) to 1 °C (1 °F) from 200 °C (+390 °F) up
Accuracy (±1 digit)	±1 °C (±1.8 °F) ±0.5 % of the measured value (-40 to +900 °C/ -40 to 1650 °F) ±2 °C/±3.6 °F ±1 % of the measured value (remaining range)
Display	LCD, one line, digits 14 mm high
Operating temperature	0 to +40 °C (+32 to +100 °F)



Admissible storage and transport temperature	-20 to +70 °C (-4 to +155 °F)
Housing	plastic (ABS) 190x57x42 mm (LxBxH)
Weight	approx. 300 g
Current supply	battery 9 V IEC 6F 22 or 9-V accumulator
Battery life	>100 h (alcali-mang.)



Order designation and delivery scope:

**TEMP.MG175830**  
(measuring instrument with sensor  
TEMP.MG175830.F and service bag)

**Temperature sensor as spare part**  
(can be ordered separately):

Quick-reacting surface sensor  
TEMP.MG175830.F

strap sensor (NiCr-Ni thermocouple plug-  
and-socket connection, type K)

Measuring range -60 to +300 °C  
(-75 to +570 °F)

briefly up to +500 °C (+930 °F)

Order designation:  
**TEMP.MG175830.F**

**Temperature sensor as accessory**  
(can be ordered separately, for temperature  
measuring of fluids, lubricants etc.):  
Immersion sensor/stick-in sensor  
TEMP.MG175830.TF  
(NiCr-Ni thermocouple

plug-and-socket connection, type K)  
Measuring range -60 to +400 °C  
(-75 to + 750 °F)  
Order designation:  
**TEMP.MG175830.TF**

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