

# Combined thermometer/pressure gauge TM



#### **Benefits**

- Pressure and temperature measurement with at a single measuring point
- With self-sealing connection thread for fast installation
- Bottom connection or back connection
- With mounting valve for easy replacement without downtime

#### **Application**

For liquid media which are not highly viscous, do not crystallise and do not attack copper alloys. For combined measurement of pressure and temperature, especially in heating systems and heating boilers.

## **Description**

The combined thermometer/pressure gauge / thermo-hydrometer consists of a Bourdon tube measuring system for pressure measurement and a bimetal measuring system for simultaneous temperature measurement. Both values are measured and displayed by a single gauge. A self-closing mounting valve enable easy replacement of the measuring instrument without requiring the system to be drained. An optional M18 x 1 to G1/4 adapter is available if the combined thermometer/pressure gauge has to be mounted into an existing thermowell with M18 x 1 female thread

# **Technical specifications**

Туре

D1, D2

Nominal size

63 - 80

Accuracy class

Pressure gauges: 2,5 (EN 837-1/6)

Range

Pressure: 0/4 bar 0/6 bar 0/10 bar

Temperature: 20/120 °C

Application area

Pressure

Static load: % x full scale value

Dynamic load: % x full scale value

Short-term: Full scale value

Temperature: Full scale value

Operating temperature range

Medium: Max. 120 °C Ambient: -20/+60 °C

Temperature performance

Pressure: Indication error when the temperature of the

measuring system deviates from the normal

temperature of 20 °C:

Pressure: at rising temperature approx. ± 0.4 %/10 K
Pressure: falling temperature approx. ± 0.4 %/10 K

Pressure: of full scale value

Degree of protection IP 32 (EN 60529)



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## Standard version

Connection

Brass, centre back or bottom

G%B with mounting valve G% to R%, Adapter G% to M 18 x 1 G%B with mounting valve G% to R%

Measuring element

Pressure: Bourdon tube, Copper alloy

Temperature: Bimetal spiral

Dial

Plastic, white

Scaling black with red/blue circular arcs

#### **Options**

- Adapter M 18 x 1 to G1/4
- Special scales
- Other process connections

Pointer Pressure:

Plastic, black

Temperature: Plastic, Red

Housing

D1:

Plastic

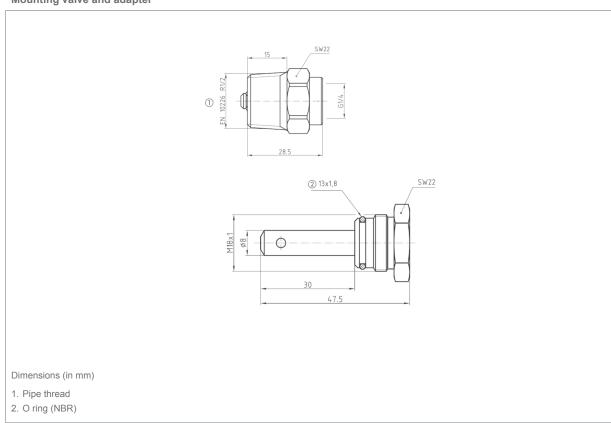
D2: Sheet steel, black

Window

Plastic, clipped in with adjustable red mark

#### **Detail views**

## Mounting valve and adapter

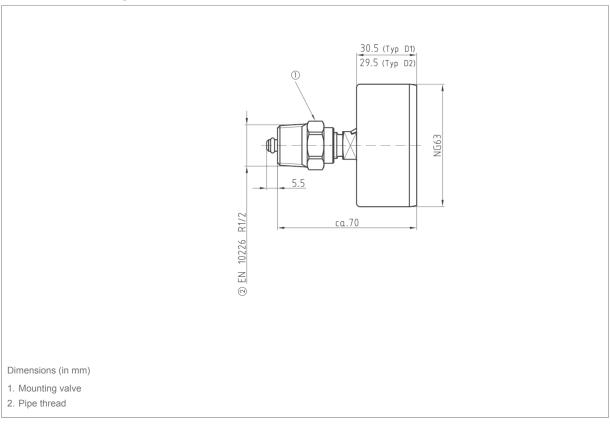




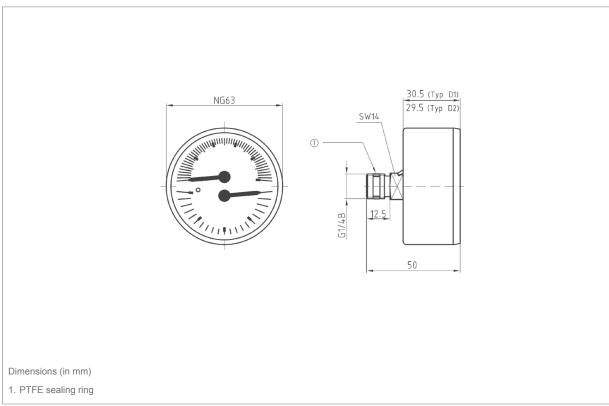
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TM 63 ax with mounting valve



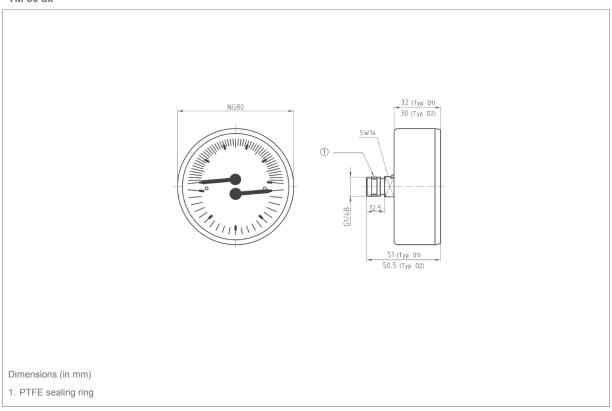
### TM 63 ax



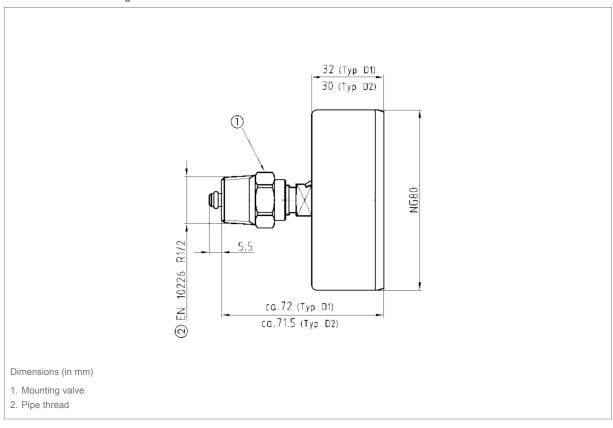




TM 80 ax



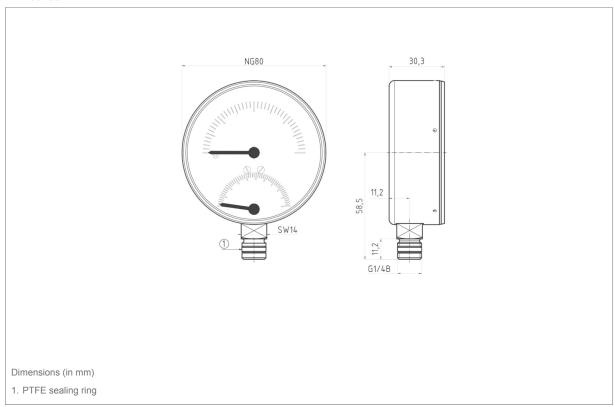
## TM 80 ax with mounting valve





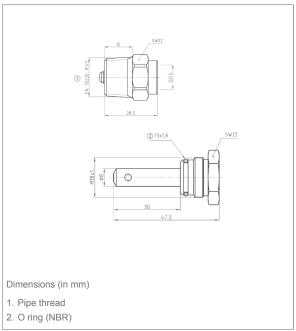


TM 80 rad

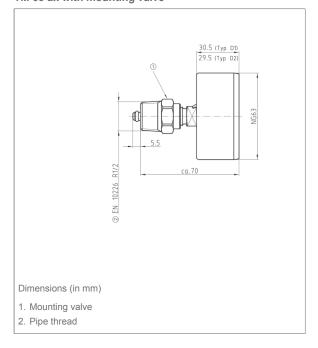


# **Technical drawings**

# Mounting valve and adapter



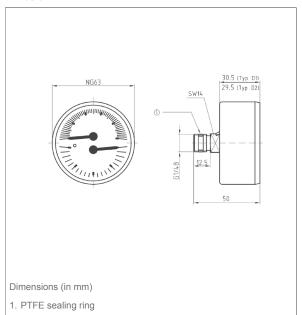
TM 63 ax with mounting valve



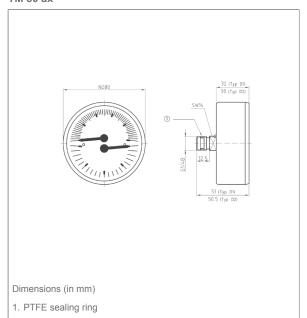




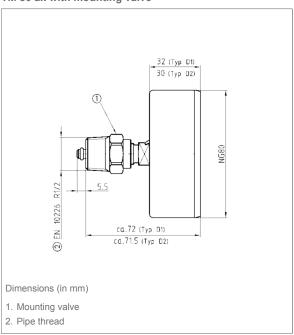
TM 63 ax



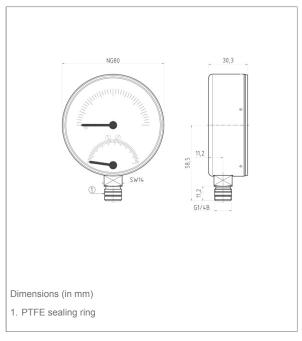
TM 80 ax



TM 80 ax with mounting valve



TM 80 rad







## **Versions**

	Housing ∅	Housing	Mounting posi- tion	Adapter	Range		Туре	Part no.
					Pressure	Temperature		i ait iio.
	63 mm	Sheet steel, black	Centre back	•	0/4 bar	20/120 °C	TM63 D211	63346
	63 mm	Sheet steel, black	Centre back		0/4 bar	20/120 °C	TM63 D211	63318
	80 mm	Plastic	Centre back		0/4 bar	20/120 °C	TM80 D111	63317
	80 mm	Sheet steel, black	Centre back	•	0/4 bar	20/120 °C	TM80 D211	63348
	80 mm	Sheet steel, black	Centre back		0/4 bar	20/120 °C	TM80 D211	63341
	80 mm	Sheet steel, black	Centre back		0/6 bar	20/120 °C	TM80 D211	63342
	80 mm	Sheet steel, black	Centre back		0/10 bar	20/120 °C	TM80 D211	63343
	80 mm	Sheet steel, black	Bottom		0/4 bar	20/120 °C	TM80 D201	63337
	80 mm	Sheet steel, black	Bottom		0/6 bar	20/120 °C	TM80 D201	63338
	80 mm	Sheet steel, black	Bottom		0/10 bar	20/120 °C	TM80 D201	63339

Blue part no. = in-stock items

