

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 selfclosing mounting valve enable easy replacement of the measuring instrument without requiring the system to be drained. An optional M18 x 1 to G¼ 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

Range

Nominal size 63 - 80

Accuracy class Pressure gauges:

Pressure: Temperature:

0/4 bar 0/6 bar 0/10 bar 20/120 °C

2,5 (EN 837-1/6)

Application area

Pressure Static load: Dynamic load: Short-term: Temperature:

³⁄₄ x full scale value ²∕₃ x full scale value Full scale value 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)



Standard version

Connection

Brass, centre back or bottom G1/4B with mounting valve G1/4 to R1/2 G1/4B with mounting valve G1/4 to R1/2, Adapter G1/4 to M 18 x 1

Measuring elementPressure:Bourdon tube, Copper alloyTemperature: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

Detail views

Mounting valve and adapter

Pointer Pressure: Temperature:

ure: Plastic, Red

PI

P S

Plastic Sheet steel, black

Plastic, black

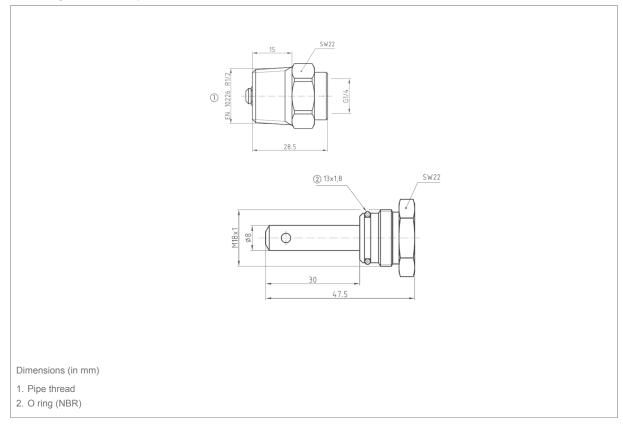
Window

Housing

D1:

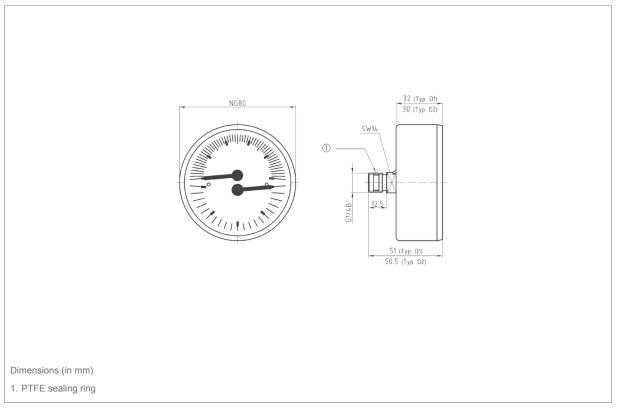
D2:

Plastic, clipped in with adjustable red mark

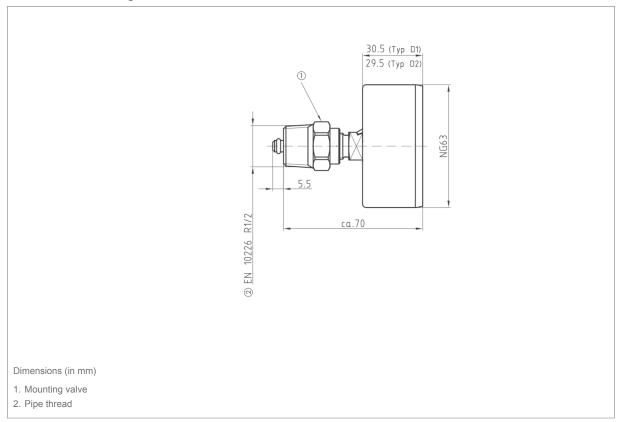




TM 80 ax

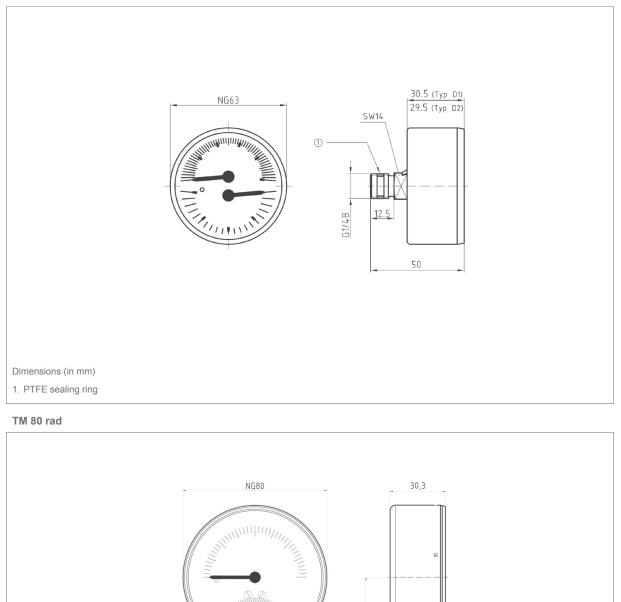


TM 63 ax with mounting valve









<u>11,2</u> 25 285

> C'11 G1/4B



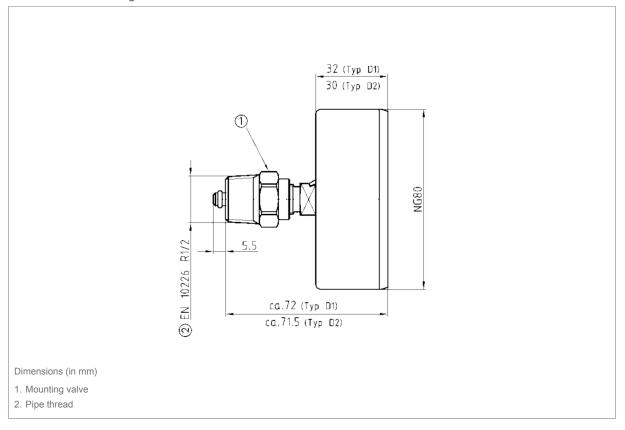
1. PTFE sealing ring

🛕 AFRISO

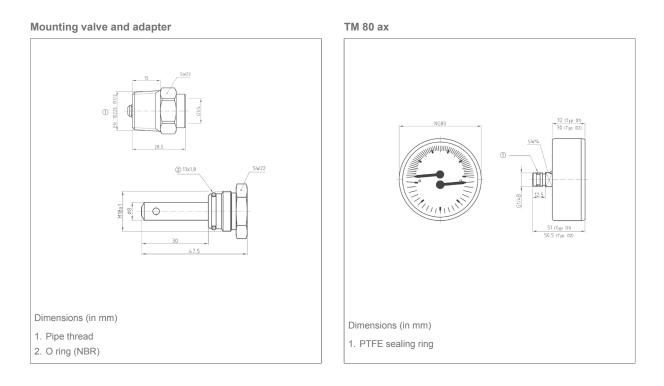
SW14

1

TM 80 ax with mounting valve

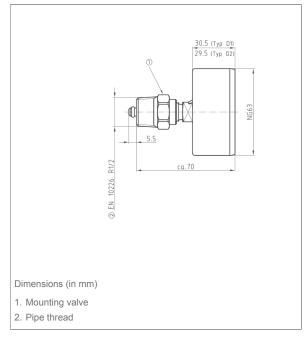


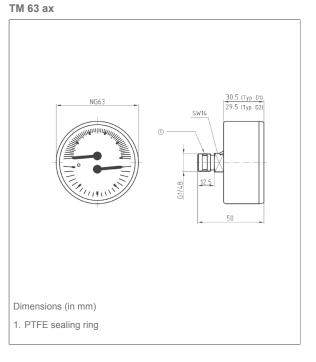
Technical drawings



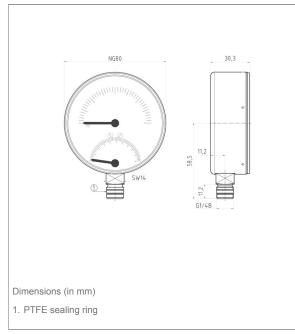


TM 63 ax with mounting valve

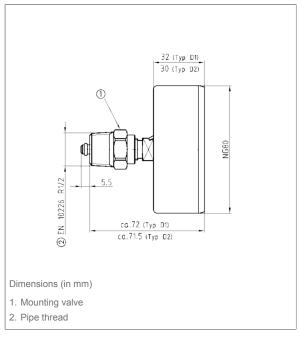




TM 80 rad



TM 80 ax with mounting valve



AFRISO



Versions

	Housing ø	Housing	Mounting posi- tion	Adapter	Range		Туре	Part no.
					Pressure	Temperature		i urtilo.
	80 mm	Plastic	Centre back		0/4 bar	20/120 °C	TM80 D111	63317
	63 mm	Sheet steel, black	Centre back	٠	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	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
	80 mm	Sheet steel, black	Centre back	٠	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

Blue part no. = in-stock items

