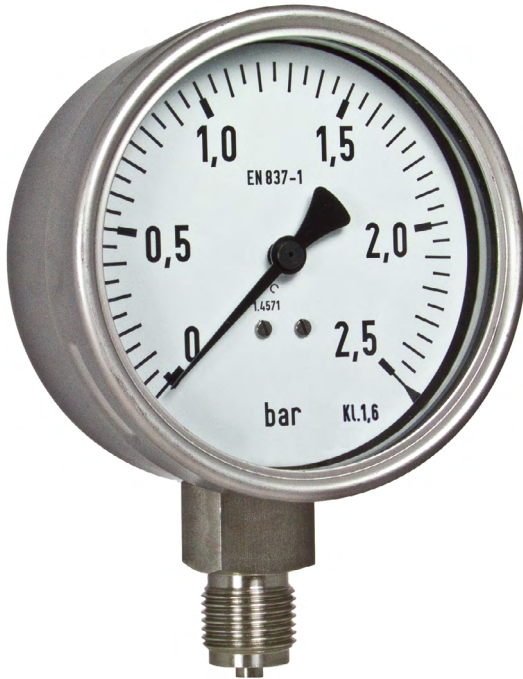




# PM-63N

## Bourdon Pressure Gauge



## Features

- / Quality class 1.6
- / Brass or VA movement
- / Filled or unfilled
- / Protection class IP65 / IP54

## Description:

Bourdon pressure gauges in the PM-63N series can be supplied in brass or stainless steel designs in filled or unfilled conditions. A drawn brass or stainless steel pipe shaped into a spiral is filled with the medium which deforms irrespective of the pressure. This movement is indicated by a measuring instrument which can be attenuated by the glycerin filling available optionally so that vibrations are heavily mellowed down. The natural lubricating action of glycerin reduces the wear and tear of moving parts and penetration of corrosive gases and prevents formation of water condensation. The stainless steel version allows measurement of pressure even in the most hostile fluids and gases. The pressure gauges are selectively equipped with a G1/4 B threaded connection at the bottom or centre respectively off-centre at the back.

## Application:

Bourdon pressure gauges are used across all types of industrial applications. They are particularly suited for measuring points where no power supply is available. The PM-63N.1 series of pressure gauges is widely used in machine and equipment manufacturing, in pumps, compressors or block-type thermal power plants, since often the requirements on the consistency of media must necessarily be moderate. On the other hand, the PM-63N.2 series of chemical pressure gauges is capable of resisting more hostile media and, therefore, are used frequently in chemical and petrochemical industries, in the food-processing segment, in pharmaceutical production or in power stations where they have a proven record of unflinching service for decades.



# Technical Specifications:

- Accuracy class /** quality class 1.6
- Protection class /** PM-63N.x.1... - IP54 as per EN 60529 / IEC 529  
PM-63N.x.2... - IP65 as per EN 60529 / IEC 529
- Sealing + plug /** EPDM and PUR
- Damping /** glycerine
- Options /** other attenuation fluids, special type scales with customer's logo, other process connections

## Load /

Pressure	steady	dynamic	burst
PM-63N.1.1.x..	0.75 x FSV	0.70 x FSV	1.00 x FSV
PM-63N.1.2.x..	1.00 x FSV	0.90 x FSV	1.30 x FSV
PM-63N.2.1.x..	1.00 x FSV	0.90 x FSV	1.30 x FSV
PM-63N.2.2.x..	1.00 x FSV	0.90 x FSV	1.30 x FSV

## Temperature /

Temperature	max. Media temperature	Ambient temperature
PM-63N.1.1..	+60°C	-25...+ 60°C
PM-63N.2.1..	+200°C	-40...+ 60°C
PM-63N.1.2..	+60°C (>100 bar +100°C)	-25...+ 60°C
PM-63N.2.2..	+ 100°C	-25...+ 60°C

## Temperature error /

Temperature error, T <sub>Ref</sub> 20°C
rising: + 0.3% FS / 10K
falling: - 0.3% FS / 10K

## Materials /

Material	Housing	Window
PM-63N.1.1.x..	black carbon steel, plastic resp. st. steel	instrument acrylic glass
PM-63N.1.2.x..	st. steel	polycarbonate
PM-63N.2.1.x..	st. steel	laminated safety-glass
PM-63N.2.2.x..	st. steel	laminated safety-glass

Material	Sensor element	Dial
PM-63N.1.1.x..	up to 60 bar circular bourdon ab 60 bar helix bourdon	white aluminium / white plastic, black scale and lettering as per EN 837-1
PM-63N.1.2.x..	up to 100 bar, CuSn8, soft-soldered from 100 bar, st. steel - 1.4404, hard-soldered	white aluminium, black scale and lettering as per EN 837-1
PM-63N.2.x..	st. steel 1.4404	white aluminium, black scale and lettering as per EN 837-1

Material	Motion work	Pointer
PM-63N.1.x..	Bottom and cover-parts from brass, moving parts argentan	black aluminium / black plastic
PM-63N.2.x..	st. steel	black aluminium

# Ordering Codes:

<b>Order number</b>	<b>PM-63N.</b>	<b>2.</b>	<b>2.</b>	<b>1.</b>	<b>0.</b>	<b>Q</b>
<b>PM-63N Bourdon Pressure Gauge</b>						
<b>Version /</b>						
1 = brass						
2 = fully stainless steel for chemical applications						
<b>Damping /</b>						
1 = no glycerin filling						
2 = with glycerin filling						
<b>Process connection /</b>						
1 = G1/4" B at the bottom						
2 = G1/4" B back, centred (PM-63N.1.), back, off-centre (PM-63N.2)						
<b>Fastening rim (see table for possible combination) /</b>						
0 = none						
1 = 3 hole front ring						
2 = rear edge for wall-mounting						
3 = 3 rimmed front ring with clamp						

## Operating range /

- A = 0 ... 0.6 bar (PM-63N.1.1 only)
- B = 0 ... 1 bar
- C = 0 ... 1.6 bar
- D = 0 ... 2.5 bar
- E = 0 ... 4 bar
- F = 0 ... 6 bar
- G = 0 ... 10 bar
- H = 0 ... 16 bar
- I = 0 ... 25 bar
- J = 0 ... 40 bar
- K = 0 ... 60 bar
- L = 0 ... 100 bar
- M = 0 ... 160 bar
- N = 0 ... 250 bar
- O = 0 ... 400 bar
- P = 0 ... 600 bar
- Q = 0 ... 1000 bar (not for PM-63N.1.1)
- S = -1 ... 0 bar
- T = -1 ... +0.6 bar
- U = -1 ... +1.5 bar
- V = -1 ... +3 bar
- W = -1 ... +5 bar
- X = -1 ... +9 bar
- Y = -1 ... +15 bar

## Front ring /

	3-hole Front ring	rear edge	3-rimmed- Front ring
PM-63N.1.1.1..	-	OK	-
PM-63N.1.1.2..	OK	-	OK
PM-63N.1.2.1..	OK	OK	-
PM-63N.1.2.2..	OK	-	OK
PM-63N.2.1.1..	OK	OK	-
PM-63N.2.1.2..	OK	OK	OK
PM-63N.2.2.1..	OK	OK	-
PM-63N.2.2.2..	OK	OK	OK