

# Pressure Gauge

Class 2,5

AT 4257

Dimension	PN	Temperature range	Material
G 1/4 - G 3/8	Full scale value for temporary load	-20 °C to +60 °C	Plastic

## Range of Application

For measuring the pressure of liquefied or gaseous non-aggressive media, primarily water, air and steam.

## UGC.31 Pressure gauge

Pipe-mounted, with analogue display of instantaneous value. Pressure gauges AT 4257 of Bourdon tube type. Class 2.5, husdiameter 62 mm, graded 0-.... bar / Pascal.



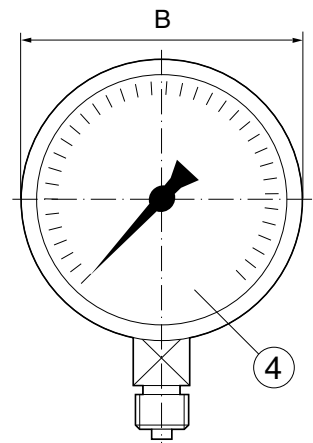
## Quality Assurance

PED, AFS 1994:4

## Material Specification

AT 4257	
1	Bourdon tube copper alloy
2	Body black plastic ABS
3	Measuring body platinum brass
4	Glass acrylic glass

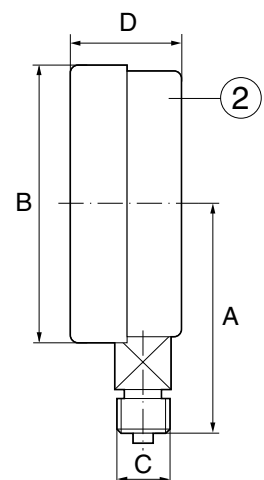
Parts in contact with media is made of copper alloy



## Dimensions

AT 4257	
A	54
B	62
C	G 1/4
D	27,5

Measurement in mm.



## Function and Design

The pressure gauge is a bourdon tube type, which involves a circle-formed tube spring with an oval cross-section. The system pressure internally affects the bourdon tube so that it, at a certain pressure tends to straighten out. The free end of the bourdon tube moves proportionally with the internal pressure. This movement is then converted by the measuring element into a movement/indication value on the dial.

## Technical Information

	AT 4257
Media temperature	-20°C to +60°C
Ambient temperature	-20°C to +60°C
Accuracy class	2,5%
Effect of temperature	0,4%/10°C (over and under 20°C)
IP class	54
Max. working pressure	75% of the scale value at resting load. 66% of the scale value at fluctuating loads.

## Dimensioning

The scale range should be selected in accordance to the constant pressure that not should exceed 2/3 of the scale range.

## Accessories and Options

For complete pressure gauges sets including control pressure gauge valve, water trap pipe and and pressure gauge valve, please see our AT 1800-1806 product sheet. The pressure gauges are also available in damping fluid-filled, in stainless steel and with non-standard gradings upon request.

## Installation

The pressure gauges are to be mounted so that they are both easy to read and protected against vibrations, heat, cold and high air humidity. For high fluid temperatures, a water worm pipe should be used. For pressure variations and vibrations, a damping fluid-filled pressure gauge should be used.

## Marking

The products are marked with Armatec, class and grading.

## How to order

Example: AT 4257-10-2,5			
AT 4257	-	10	2,5
Fig. no. AT 4257=body diameter 62 mm	Execution - = standard D = damping fluid-filled U = decompression	Connection -8	Grading