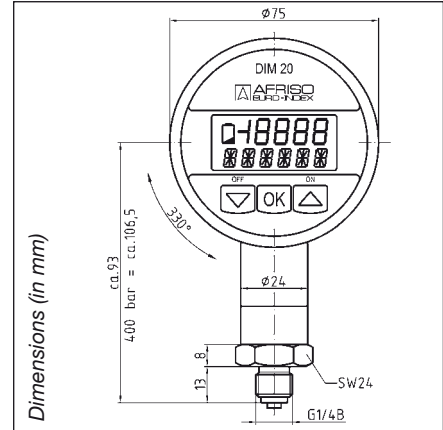


# Universal digital pressure gauge DIM 20



- Selection of measurement units
- Min.-Max value memory
- Menu-guided operation
- Indicator rotatable by 330 degrees
- Zero point and full scale calibration possible
- Adjustable switch-off automatic
- Decimal point adjustment
- Every instrument supplied with a calibration protocol



## Application

For high accuracy electronic pressure measurement with local digital display, for use in hydraulics, pneumatics, machinery and plant construction.

## Description

Compact microprocessor controlled pressure gauge with thick-film ceramic measuring cell. The microprocessor processes the signal received from the pressure sensor, converts it into the desired unit and displays it.

Every instrument is supplied with a calibration protocol.

## Functions features

Selection of measurement units, min. and max. value memory, zero point and full scale calibration, adjustable switch-off automatic, adjustable decimal point, battery status indication.

## Displayed values

Selectable pressure units:  
bar/mbar/psi/InHg/mmHg/hPa/kPa/MPa/mWS

## Display

Multi-line liquid crystal display, line 1: 4.5-digit, numeric, for display of measured value (digit height 9.5 mm)

Line 2: 6-digit, alphanumeric, for display of additional information (digit height 6.8 mm) as well as additional symbols. Indicator rotatable by 330 degrees.

## Accuracy of measurement

±0.5 % FSD acc.to IEC 60770

## Measuring ranges

-1/0 bar,  
0/2.5 bar to 0/400 bar

## Overpressure safety

Minimum 1.5 x FS

## Burst pressure

≤ 160 bar minimum 2.5 x FSD  
> 160 bar minimum 1.5 x FSD

## Operating temperature range

Medium: -20 °C/+125 °C  
Ambient: -20 °C/+45 °C  
Storage: -30 °C/+80 °C

## Temperature error

In compensated range  
0-70 °C ≤ 0,5 % FSD

## Dynamic characteristics

Measurement scanning rate 5/s

## Process connection

G1/4B (EN 837-1/7.3)  
bottom

## Materials

Housing PA6, glass reinforced  
Pressure connection Stainless steel 304  
Diaphragm Ceramic Al<sub>2</sub>O<sub>3</sub> 96 %  
Seal <100 bar: FKM  
>100 bar: NBR

## Protection

IP 51 (EN 60529)

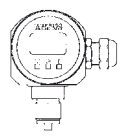
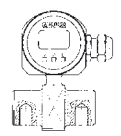
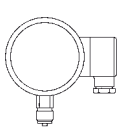
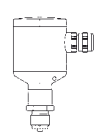
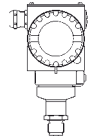

## Supply voltage

1x Lithium battery 3.6 V (included),  
battery life depends on usage, max  
5 years

DG: H	Part no.	Price €
Spare battery	68309	

# Pressure transducer / Digital pressure gauge

RK: H

Type	DMU 12	DMU 12 Dif	DMU 13	DMU 14 FG	DMU 14 DG	DIM 20
Housing diam						
Housing -Ø	62	62	100	60	75	75
Housing	stainless	stainless	stainless	stainless	aluminium	plastic
Accuracy	0,2 % FSD	0,2 % FSD	0,35 % FSD	see data sheet	see data sheet	0,5 % FSD
Wetted parts	stainless 1.4404	stainless 1.4404	stainless 1.4571/1.4404	stainless 1.4571/1.4435	stainless 1.4571/1.4435	stainless 1.4305 ceramic
Connection	G <sup>1</sup> / <sub>2</sub> B	EN 61518	G <sup>1</sup> / <sub>2</sub> B	G <sup>1</sup> / <sub>2</sub> B	G <sup>1</sup> / <sub>2</sub> B	G <sup>1</sup> / <sub>4</sub> B
Supply voltage	DC 12–50 V	DC 12–50 V	DC 12–36 V	DC 10–30 V	DC 10–30 V	DC 3,6 V
Output	4–20 mA	4–20 mA	4–20 mA	4–20 mA	4–20 mA	---
Measuring range	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
<b>Price €</b>						
0/250 mbar	---	---	---	31977	31987	---
<b>Price €</b>						
-1/0 bar	---	---	---	---	---	<b>32500</b>
0/0,6 bar	---	---	31076	---	---	---
0/1 bar	31040*	31049	31077	31978	31988	---
<b>Price €</b>						
0/1,6 bar	---	---	31078	31979	31989	---
0/2,5 bar	---	---	31079	---	---	<b>32503</b>
0/4 bar	31041*	31050	31080	---	---	---
0/6 bar	---	---	31081	31980	31990	<b>32505</b>
0/10 bar	---	---	31082	---	---	<b>32506</b>
0/16 bar	31042*	31051	31083	31981	31991	---
0/25 bar	---	---	31084	31982	31992	<b>32508</b>
0/40 bar	31043*	---	31085	---	---	<b>32509</b>
<b>Price €</b>						
0/60 bar	---	---	---	31983	31993	---
0/100 bar	31044*	---	---	---	---	<b>32511</b>
0/160 bar	---	---	---	31984	31994	<b>32512</b>
0/250 bar	---	---	---	31985	31995	<b>32513</b>
0/400 bar	31045*	---	---	---	---	<b>32514</b>
0/600 bar	---	---	---	31986	31996	---
<b>Additional costs**</b>	<b>Price €</b>	<b>Price €</b>	<b>Price €</b>	<b>Price €</b>	<b>Price €</b>	<b>Spare battery</b>  <b>Part no.</b> 68309  <b>Price €</b>
Ex-version with HART protocol	on request	on request	---			
Liquid filling	---	---		---	---	
Display	standard	standard	---			
Clamp connection 1" or 1½"	---	---	---			
Clamp connection 2"	---	---	---			
Dairy fitting DIN 11851 DN 25	---	---	---			
Dairy fitting DIN 11851 DN 40	---	---	---			
Dairy fitting DIN 11851 DN 50	---	---	---			
High temperature version +300 °C	---	---	---			

\* Measuring range -1/+x bar

\*\* Wetted parts of clamp and dairy fittings = stainless steel 1.4435