

# Model DPG102

Digital Pressure Gauge  
Dual Alarms

**Materontek**  
Sensing and Internet of Things

DPG102 is an integrated pressure gauge with display and control used to monitor hydraulic fluids. It monitors the pressure via the resistance measured on an isolation membrane. The output signal is amplified by a high-precision, low-temperature drift amplifier. The signal is then fed into a high accuracy A/D converter for the microprocessor to process and then show on the LED display.

## Features

- Measuring ranges from -1 ... 0 to 0 ... 2200 bar
- Accuracy 0.25 %FS, 0.5 %FS
- DC power
- 0.56" 4-digit LED display
- 220V / 3A or 220V / 5A relay output

## Application

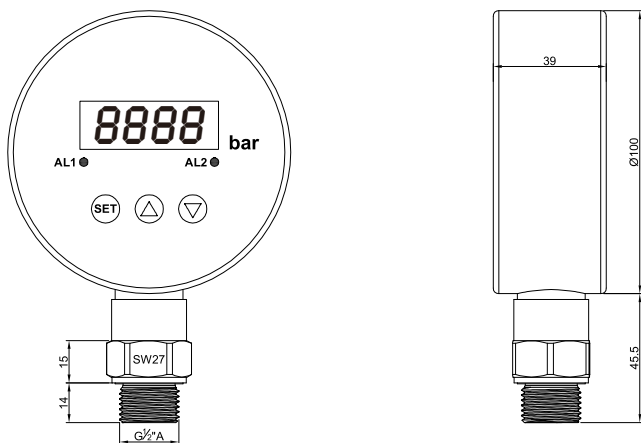
- Hydro-Power
- Water Treatment
- Petroleum
- Chemical
- Mechanical
- Hydraulic, And Other Industries.

## Technical data

Performance	
Pressure Range	-1 ... 0 to 0 ... 2000 bar
Display method	0.56" 4-digit LED display
Accuracy	±0.25%FS, ±0.5%FS
Output signal	4...20 mA
Relay output	2 way x 220V / 3A or 2 way x 220V / 5A relay output
Power supply	15...30 VDC option 220VAC
Overload Pressure	120%FS
Unit	bar
Long Term Stability	±0.2%FS/year
Diaphragm	SUS 316L
Housing Material	SUS 304
Process Connection	G1/2, G1/4, 1/4NPT, 1/2NPT, PT1/4, PT1/2, Tri-Clamp
Operating temperature	-30 to 80 °C
Protection	IP40



## Dimensions (All dimensions in mm)



The listed specifications and dimensions are subject to change without prior notice

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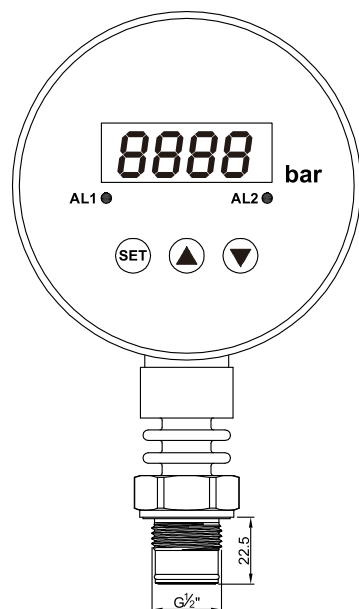
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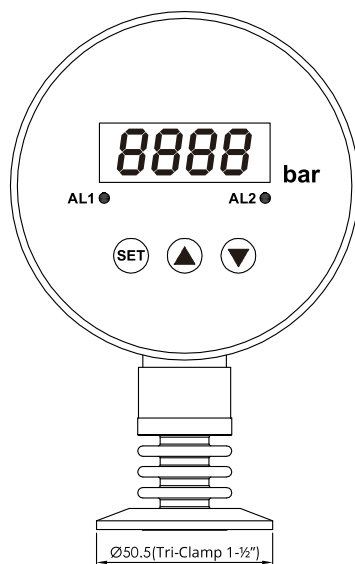
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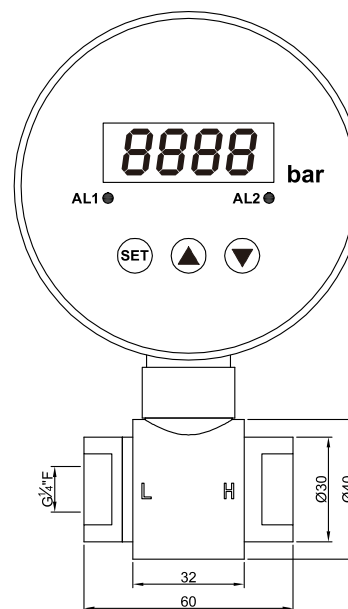
Flush membrane pressure interface



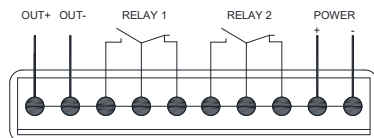
Clamp sanitary pressure connection



Differential pressure measurement pressure interface



## Electrical connections



## Ordering code

Model	Pressure range			Type	Pressure Port	Accuracy	Power supply	Relay output		
DPG102	01	0.1bar	20	400bar	G Gauge	01	G¼ A ISO9974-2 male	A1 ±0.25%FS	E1 15...30VDC	3A 2 way x 220V / 3A
	02	0.2bar	21	600bar	A Absolute	02	G½ A ISO9974-2 male	A2 ±0.5%FS	E2 220 VAC	5A 2 way x 220V / 5A
	03	0.35bar	22	1000bar	D Differential	03	G¾ A ISO9974-2 male			
	04	0.6bar	23	1500bar		04	G¼ B EN837 male			
	05	1bar	24	2000bar		05	G½ B EN837 male			
	06	2bar	25	2200bar		06	G¾ B EN837 male			
	07	2.5bar	26	-0.2...+0.2bar		07	¼NPT male			
	08	4bar	27	-1...0bar		08	½NPT male			
	09	6bar	28	-1...1bar		09	PT¼ male			
	10	10bar	29	-1...5bar		02	PT½ male			
	11	16bar	30	-1...10bar		11	M20x1.5 male			
	12	20bar	31	-1...15bar		12	¼MP-7/16-20UNF male			
	13	25bar	32	-1...30bar		13	¼HP-9/16-18UNF male			
	14	35bar	99	Custom		14	G¼ female			
	15	50bar				15	¼NPT female			
	16	70bar				16	G½ Flush			
	17	100bar				17	G1 Flush			
	18	160bar				18	½NPT Flush			
	19	250bar				19	Tri-Clamp 1-½"			
						20	Tri-Clamp 2"			
						99	Custom			

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