Type DG-10 Digital Pressure Gauge

Standard Features

■ Case: 3.15" diameter stainless steel

Process connection: 1/4" NPT malePower requirements: 2 AA batteries

■ Stocked enhanced version includes protective rubber boot

Description							
Range	DG-10-S Standard Part #	DG-10-E Enhanced Part #					
-30 inHg29 psi	50365444	50365657					
-30 inHg72 psi	50365452	50365673					
-30 inHg145 psi	50365461	50365690					
0 psi 30 psi	50365479	50365720					
0 psi60 psi	50365487	50365771					
0 psi145 psi	50365495	50365789					
0 psi300 psi	50365509	50365797					
0 psi600 psi	50365517	50365819					
0 psi1,450 psi	50365525	50365827					
0 psi2,000 psi	50365584	50365835					
0 psi3,000 psi	50365592	50365843					
0 psi5,000 psi	50365614	50365851					
0 psi7,500 psi	50365622	50365860					
0 psi10,000 psi	50365631	50365878					



Type DG-10-S



Type DG-10-E

Digital Pressure Gauge Type DG-10

WIKA Datasheet DG-10

Applications

- Mechanical engineering
- Hydraulics and Pneumatics
- Pumps and Compressors
- Service

Special Features

- Pressure ranges: from 0 ... 30 psi up to 0 ... 10,000 psi
- Display accuracy: ≤ ± 0.25% B.F.S.L.
- Pressure connections: G1/4 DIN 3852-E, 1/4 NPT male, 1/2 NPT male, G1/4B, G1/2B and others
- Case: stainless steel, 3.15" (80 mm) diameter
- Power supply: 2x 1.5 V Type AA cell

DG-10-S Standard Version DG-10-E Enhanced Version

Description

Durable, precise local display

A digital display is ideal for precise and fast pressure readings. The DG-10 features a durable stainless steel housing and integral battery power supply making it suitable for a wide range of applications and industries.

The multi-function display features a bar graph with a drag pointer function and a MIN/MAX memory. The MIN/MAX memory feature permits later recall of the minimum and maximum pressure readings.

Standard and enhanced versions

The DG-10 is available in two versions: standard (DG-10-S) and enhanced (DG-10-E). Both versions allow the user to easily switch between the most widely-accepted international measurement units including bar, psi and MPa.

Additional features of the enhanced version include a back-lit display for use in low light conditions and a housing that can be rotated for optimal viewing. Additional user-programmable functions of the DG-10-E include auto power-off, tare function, and password protection.

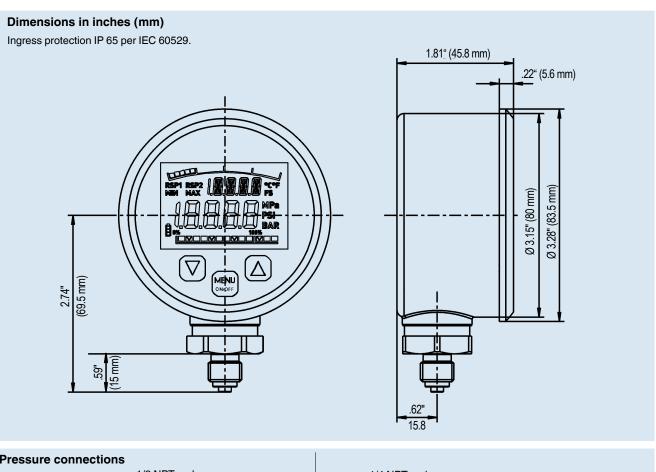
Proven pressure measurement technology

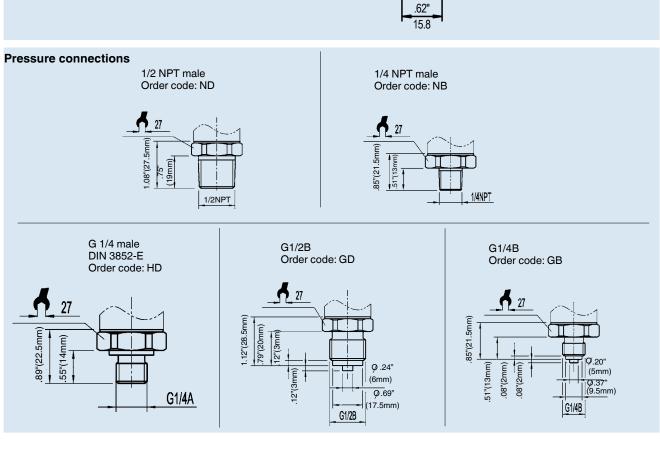
Sensors manufactured by WIKA provide high accuracy, long-term stability and excellent repeatability. For optimal performance, pressure ranges up to 600 psi (50 bar) use the WIKA ceramic sensor. Pressure ranges of 1450 psi (100 bar) and higher utilize WIKA thin film sensor technology.



Specifications		Туре	DG-10				
Pressure ranges	-30 InHg	29 psi	-30 lnHg 72 psi		-30 lnHg 145 psi		
Over pressure safety	70 psi		145		290		
Burst pressure	85 psi		170		360		
Pressure ranges	30 psi	60 psi	145 psi	300 psi	600 psi	1,450psi	
Over pressure safety	70 psi	145 psi	290 psi	580 psi	1,450 psi	2,900 psi	
Burst pressure	85 psi	170 psi	360 psi	725 psi	1,740 psi	11,600 psi	
Pressure ranges	2,000 psi	3,000 psi	5,000 psi	7,500 psi	10,000 psi		
Over pressure safety	4,640 psi	7,250 psi	11,600 psi	17,400 psi	21,750 psi		
Burst pressure	14500 psi	17,400 psi	24,650 psi	34,800 psi	43,500 psi		
Materials							
■ Wetted parts							
» Pressure connection		1.4571, 316TI SS					
» Pressure sensor		Ceramic Al ₂ O ₃ 96%, NBR {EPDM } (up to 0 600 psi)					
		XM-13 (1.4534) (≥ 1,450 psi)					
■ Case		1.4301, 304 SS		(= , , ,			
Power supply		2x 1.5 V Type AA b	atteries				
Operating time	h	4.000 (AA 2.000 mAh)					
Internal sampling rate	ms	200					
Insulation voltage	VDC	500					
Display accuracy	% of span	≤ ± 0.25% B.F.S.L.					
Zero offset	% of span		(Power-up reset)				
Zero adjustability	% of span	≤ 20 (via Tare-Function with model DG-10-E)					
Hysteresis	% of span	≤ 0.1	(via fare i anolion	Will model ba 10	_,		
Non-repeatability	% of span	≤ 0.1					
Long-term stability per year	% of span	≤ 0.1 ≤ 0.2					
Long-term drift	% of span	≤ 0.1					
Permissible temperature of	/6 01 Spai1	≥ 0.1					
■ Medium		/°E .195°E / 9/	0°C +95°C\ (up	to 0 600 poi)			
Mediam		-4°F +185°F (-20°C +85°C) (up to 0 600 psi)					
■ Ambient		-22°F +212°F (-30°C +100°C) (≥ 1450 psi)					
		+14°F +140°F (-10°C +60°C)					
Storage		-4°F +158°F (-20°C +70°C) +32°F +140°F (0°C +60°C)					
Operating temperature range Temperature coefficients within		+32°F +140°F (0)*C +60°C)				
•							
compensated temp range	0/	40 4E /40k					
■ Mean TC of zero	% of span	≤ 0.15 / 10k					
Mean TC of span	% of span	≤ 0.15 / 10k					
CE-conformity		07/00/50					
Pressure equipment directive		97/23/EC 89/336/EEC emission (class B) and immunity according to EN 61 326					
■ EMC directive	0		` '	immunity according	to EN 61 326		
Case rotation	0	300 ° (only with mo					
D.:		DG-10-S		DG-10-E	/ -l' - 'l		
Principle		7 segment LCD 4	aigit	7 segment LCD 41/2	•		
				14 segment LCD 4		splay)	
Digit size		.43" (11 mm)		` '	1 mm) and .28" (7 mm)		
Display		-999 9999		-1999 19999			
Background illumination		No		Included			
Bar graph with trailing pointer		Included		Included			
function							
Min/Max memory		Included		Included			
Auto On/Off		Optional (ex works	3)	15/30/60/120 min			
Tare adjustment		No		Included			
Units bar, psi, MPa		Included		Included			
Password protection		No		Included			
Reset factory setting		No		Included			
Weight		Approx. 14oz. (400) g)				

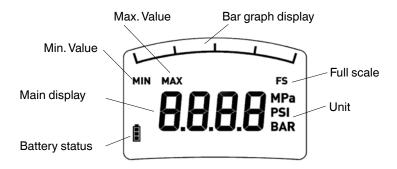
^{} Items in curved brackets are optional extras for additional price.



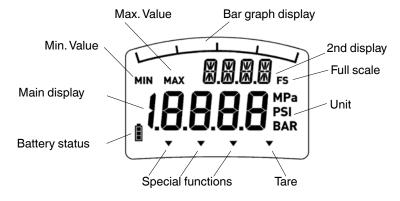


Description of the Display

DG-10-S



DG-10-E

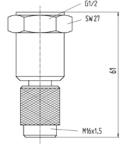


Accessories

Protective boot (black, vulcanized rubber)



Minimess gauge adapter system



Specifications and dimensions given in this data sheet represent the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.

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