



NK Instruments Pvt. Ltd.

Manufacturer and Supplier of Process control Instruments and Analytical Equipment

PRESSURE | VACUUM | DP | TEMPERATURE | FLOW | VELOCITY | LEVEL | VIBRATION | CONDUCTIVITY | pH | ORP | DO2
GAS GENERATORS | WATER PURIFICATION SYSTEMS | PERISTALTIC PUMPS | GAS FLOW CONTROLLERS | ADVANCED SPECTROSCOPY



DPG-20

DIFFERENTIAL PRESSURE GAUGE



FEATURES

- Piezo Resistive Sensor
- Measuring Range +/- 0.1 to 25 bar
- Indication Through LCD
- Display Auto Shut-Off Facility
- Battery Operated, Solar Powered
- Reliable and Cost Effective
- Unit Conversion Facility
- Zero Tare Facility



series DPG-20 is Digital Differential Pressure Gauges for fast, easy & trouble free operation. These can be cost effective & ideal for monitoring the pressure. Display shut-off facility is provided so that display can be made 'ON' only if required through push button. Thus it saves the battery power & results in long lasting battery operation.

Technical Specifications

Sensor Type	Piezo Resistive
Pressure Range	±0.1 to 25 Bar
Power Supply	Battery Operated, Solar Powered
Display	LCD Display
Display Lock	Display can be made ON by pressing 'ON' Key on front fascia Display ON duration programmable
Battery Back up Time	1 to 5 years based on sampling & messaging frequency
Communication Output	Output 1: RS485 (MODBUS RTU) Output 2 : GSM, GPRS
Accuracy	± 0.25% F. S. (Including Linearity, Repeatability & Hysteresis) <i>*In case of remote seal process connection the accuracy will be less than +/-1% F. S.</i>
Response Time	< 200 mSec
Burst Pressure	3 times max. Pressure range
Over Pressure	2 times max. Pressure range
Static Pressure	10 MPA
Temperature Coefficient	± 0.01% per °C
Operating Temperature	Temperature : -20 to 55 °C / Humidity : 5 to 95% non condensing
Temperature Compensation	Inbuilt
Process Temperature	-20 to 120°C max
Process Connection	A. 1) 1/4" NPT, 2) 1/2" NPT, 3) 1/4" BSP, 4) × 1/2" BSP B. 5 Mtrs. Capillary (1", 2", 3" Flanged)
Process Connection Point	1) Bottom, 2) Rear
MOC Electronics Enclosure	SS / Die cast Aluminum IP-65
Diaphragm MOC	Hastelloy C / SS316L
Sensor MOC	SS316 / Hastelloy C
Area Classification	Field Mount Weather Proof IP65
Electrical Connection	1) M 20 x 1.5 (F) 2) 1/2" NPT (F) 3) DIN 43650 Connector
Weight	1 kg (Approximate)
Fill Fluid	Silicon Oil
CE Marking	Provided 

Continuous efforts for product development may necessitate changes to these details without notice



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Product Drawing & Dimensions

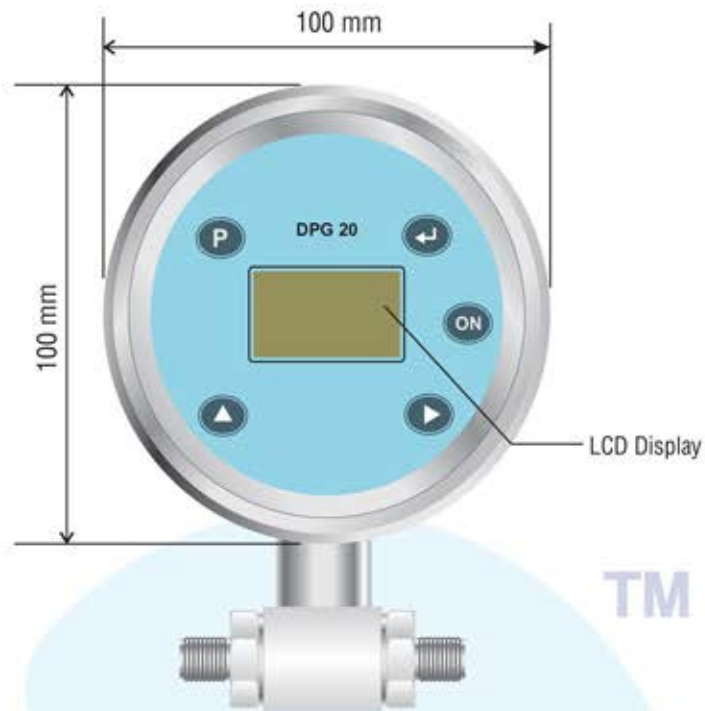


Fig 1 Front View

Assembly Overview Details

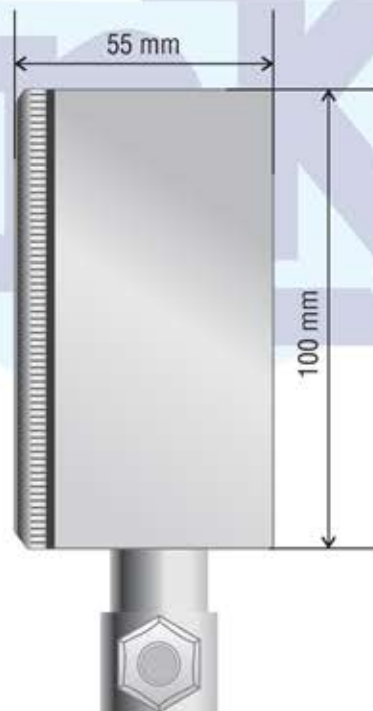


Fig. 2 Side View

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Ordering Information

Sample Order Code : B2 D2 F2 G2 I1 J2 L1 M1 N2 O3 P6 Q2 R1

Parameter	Code	Description	Parameter	Code	Description				
B	Pressure Range	B1	0.1885 psi	N	MOC of Sensor	N1	SS316		
		B2	1.16 psi			N2	Hastelloy C		
		B3	5.801 psi			NY	Other		
		D	Power Supply	B4	29.007 psi	O	O Ring Material	O1	Buna - N
				B5	100 psi			O2	Ethylene - Propylene
				B6	300 psi			O3	Teflon
				B7	1000 psi			O4	Viton
F	MOC Electronics Enclosure	D2	Battery Operated	P	Process Connection	P1	¼" NPT (M)		
		D3	Solar Powered			P2	½" NPT (M)		
		F1	Aluminium Dia Cast			P3	¼" BSP (M)		
G	Electrical Connection	F2	SS316			P4	½" BSP (M)		
		F3	ABS Plastic			P5	¼" NPT (F)		
		G1	M 20 x 1.5 (F)			P6	½" NPT (F)		
I	Communication Output 1 (Any one)	G2	½" NPT (F)			P7	¼" BSP (F)		
		G3	DIN 43650 Connector			P8	½" BSP (F)		
		I1	RS485 (MODBUS RTU)			PY	Other		
J	Communication Output 2 (Any one)	IX	NA	Q	Mounting Bracket	Q1	MS		
		J1	GSM			Q2	SS316		
		J2	GPRS	R	Process Connection Point	R1	Bottom		
JX	NA	R2	Rear						
L	Diaphragm Material	L1	SS316L	Note : <ul style="list-style-type: none"> • Due to our continuous product revisions, design specification and model numbers are subject to change without notice. • Accuracy defined at Lab Conditions. • For other requirement please consult factory. 					
		L2	Hastelloy C						
		LY	Other						
M	Fill Fluid	M1	Silicon Oil						
		MY	Other						

Applications

Food Industry	Chemical Industry	Atomic Energy	Manufacturing Industry
Automation Industry	Thermal Power Energy	Process Industry	Water Treatment Industry

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