



# SG127-SERIES

## SAFETY PATTERN CASE PRESSURE GAUGE

**SG127 SERIES** is an ANSI standard 4.5" safety pressure gauge for extreme corrosive and severe environment with Safety pattern design (Solid front/Baffle front) and stainless steel wetted part. Fillable case and built in Restrictor screw (Throttle screw) on connection are design to be used in vibration and pulsation area. Commonly used in many industries such as Oil&Gas, petrochemical, mining, Pulp&Paper, X tree, etc.



### FEATURES



- Accuracy Class 0.5
- Chemical & petroleum processing industries
- Black impact resistant polypropylene material
- Fully safety Blow Out Back design
- Stainless steel wetted parts structure
- Over pressure up to 30% of Full Scale
- Meet Class ANSI B40.1 or EN837-1
- Excellent vibration resist with liquid filling
- Design scale ranges up to 1600 bar

### DESIGN MATERIAL



- **Casing and Bezel Ring**  
Polypropylene
- **Sensing Element**  
Stainless steel 316
- **Connection**  
Stainless steel 316
- **Window**  
Safety laminated glass
- **Window gasket**  
Industrial rubber seal or PTFE
- **Pointer**  
Black aluminum, adjustable
- **Dial Plate**  
Aluminum alloy

### TECHNICAL SPECIFICATION

- **Nominal Size**  
130 mm / 4½"
- **Accuracy Class**  
Class 0.5
- **Ingress Protection**  
IP 65 (Weather tight)
- **Connection Size**  
G½ or ½ NPT
- **Scale Range**  
Pressure 0.. 1600 bar  
Vacuum -1 bar.. 0  
Compound -1.. 24 bar
- **Filling**  
Dry or liquid filled
- **Tube Element Shape**  
P ≤ 100 bar in C tube  
P > 100 bar in helicoil
- **Operating Temperature**  
Ambient temperature -30°.. +70°C  
Medium temperature 180°C Max.
- **Temperature Error**  
Additional error when pressure element temperature deviates from reference temperature +20°C (+68°F) be ±0.4% / 10°C (50°F) rising or falling
- **Over Pressure Limit**  
130% of F.S. P < 100 bar  
115% of F.S. P > 100 bar
- **Dial Graduation**  
Black graduation on white for single range  
Black and red graduation on white for dual ranges



## ORDERING CODE

**1 DIAL**

Model	Dial size
SG127	130 mm or 4½"

**3 MOUNTING**

	Mounting
W	Bottom conn., back flange / Wall
S	Back conn., back flange/Surface

**4 CONNECTION**

	Connection size
G2	G 1/2"
N2	1/2" NPT

**5 FILLING**

	Filling
D	Dry
G	Glycerine filled
S	Silicone oil filled

**6 OPTION**

	Option
CD	Custom dial layout
SU	Special unit range
O2	Oxygen service cleaning
OC	Other connection thread

**2 RANGE**

Dual ranges		Single range		
Bar	& Psi	Bar or	Psi	kPa
-1.. 0	30"Hg..	1.. 0	-30"Hg.. 0	-100.. 0
-1.. 0.6	-30"Hg..	-1.. 0.6	-30"Hg.. 10	-100.. 60
-1.. 1.5	-30"Hg..	-1.. 1.5	-30"Hg.. 15	-100.. 150
-1.. 3	-30"Hg..	-1.. 3	-30"Hg.. 30	-100.. 300
-1.. 5	-30"Hg..	-1.. 5	-30"Hg.. 60	-100.. 500
-1.. 9	-30"Hg..	-1.. 9	-30"Hg.. 150	-100.. 900
-1.. 15	-30"Hg..	-1.. 15	-30"Hg.. 200	-100..1500
-1.. 24	-30"Hg..	-1.. 24	-30"Hg.. 300	-100..2400
0.. 1	0.. 15	0.. 1	0.. 15	0.. 100
0.. 1.6	0.. 23	0.. 1.6	0.. 20	0.. 160
0.. 2.5	0.. 35	0.. 2.5	0.. 30	0.. 250
0.. 4	0.. 60	0.. 4	0.. 60	0.. 400
0.. 6	0.. 85	0.. 6		0.. 600
0.. 7	0.. 100	0.. 7	0.. 100	0.. 700
0.. 10	0.. 150	0.. 10	0.. 150	0.. 1000
0.. 16	0.. 230	0.. 16	0.. 200	0.. 1600
0.. 25	0.. 350	0.. 25	0.. 300	0.. 2500
0.. 40	0.. 600	0.. 40	0.. 600	0.. 4000
0.. 60	0.. 850	0.. 60		0.. 6000
0.. 70	0.. 1000	0.. 70	0.. 1000	0.. 7000
0.. 100	0.. 1500	0.. 100	0.. 1500	0.. 10000
0.. 160	0.. 2300	0.. 160	0.. 2000	0.. 16000
0.. 250	0.. 3500	0.. 250	0.. 3000	0.. 25000
0.. 400	0.. 6000	0.. 400	0.. 6000	0.. 40000
0.. 600	0.. 8500	0.. 600		0.. 60000
0.. 700	0..10000	0.. 700	0..10000	0.. 70000
0.. 1000	0..15000	0..1000	0..15000	0.. 100000
0.. 1600	0..23000	0..1600	0..20000	0.. 160000