

Data Sheet

1127/1128 Differential Pressure Gauge

FEATURES

- Rugged design
- Zero center dial (1128)
- Available with diaphragm seals

TYPICAL USES

- Refineries
- Chemical and petrochemical plants
- Water and wastewater pressure control
- Mining and metals
- Filtration monitoring, level and flow measurement



1127
4½", 6" dial sizes

1128
4½", 6" dial sizes

SPECIFICATIONS

Accuracy:	±2-1-2% of span (ASME B40.100 Grade A)
Sizes:	4½", 6"
Ranges:	10 -1,000 psi
Process Connection Location:	Lower only
Process Connection Sizes:	¼ NPT, ½ NPT adaptor
Case Style:	Open Front
Window Material:	Glass
Dial:	White painted aluminum with black markings
Pointer:	Black
Weather Protection:	Case is not sealed and recommended for weather protected environment only
Movement:	Bronze
Mounting Options:	Stem, Surface

WETTED COMPONENTS

Bourdon Tube	Process Connection	Joints
316 SS	316 SS	Welded

NON-WETTED COMPONENTS

Case	Ring	Back Cover
Cast aluminum, black epoxy coated	Aluminum, hinged, black epoxy coated	Aluminum

KEY BENEFITS

- Built in back flange for surface or wall mounting
- Zero center dial to indicate negative or positive pressure
- Compatible with diaphragm seals

MIN/MAX TEMPERATURE LIMITS

Version	Ambient	Process	Storage
Dry	-20°F to 200°F (-29°C to 93°C)	-20°F to 250°F (-29°C to 121°C)	-40°F to 250°F (-40°C to 121°C)

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ORDERING CODE	Example:	45	1127	SD	02	L	XC4	100#
Dial Size								
45 - 4½"		45						
60 - 6"								
Models								
1127 - Aluminum, open front case			1127					
1128 - Aluminum, open front case - zero center dial								
System								
SD - 316 SS tube/316 SS process connection				SD				
Process Connection Size								
02 - ¼ NPT Male					02			
04 - ½ NPT Male (uses adaptors)								
Process Connection Location								
L - Lower						L		
Options (if choosing an option(s) must include a "X")							X__	
Windows/Pointers								
PD - Acrylic window								
SG - Safety glass								
EP - Maximum pointer								
EQ - Minimum pointer								
SH - Red set hand, stationary								
EO - Red set hand, adjustable								
Other								
C4 - Individual calibration chart							C4	
NH - Stainless Steel tag wired to case								
TM - 2" pipe mounting bracket								
6B - Cleaned for oxygen service								
Range (coding example only, see range tables for all standard ranges)								
100# - 100 psid								100#

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DIFFERENTIAL PRESSURE GAUGE RANGE TABLES

1127 (210° dial arc) - Single Scale					
psid	kg/cm ²	bar	kPa	Duals Scale Outer Scale psi	Static Pressure Limits
10# (130° dial arc)	-	-	-	-	10 psi
15# (130° dial arc)	-	-	-	-	15 psi
-	-	-	-	-	-
20#	1.4KSC	1.4BR	140KP	20#	20 psi
-	2KSC	2BR	200KP	28#	30psi
30#	-	-	-	-	30 psi
-	4KSC	4BR	400KP	55#	60 psi
60#	-	-	-	-	60 psi
100#	7KSC	7BR	700KP	100#	100 psi
160#	11KSC	11BR	1,100KP	160#	160 psi
200#	14KSC	14BR	1,400KP	200#	200 psi
300#	20KSC	20BR	2,000KP	300#	300 psi
400#	28KSC	28BR	2,800KP	400#	400 psi
600#	40KSC	40BR	4,000KP	600#	600 psi
800#	56KSC	56BR	5,600KP	800#	800 psi
1000#	70KSC	70BR	7,000KP	1000#	1,000 psi

1128 (210° dial arc) Zero Center Dial- Single Scale					
psid	kg/cm ²	bar	kPa	Duals Scale Outer Scale psi	Static Pressure Limits
10/10#	0.7/0.7KSC	0.7/0.7BR	70/70KP	10/10#	10 psi
15/15#	-	-	-	-	15 psi
-	1/1KSC	1/1BR	100/100KP	14/14#	15 psi
-	2/2KSC	2/2BR	200/200KP	28/28#	30 psi
30/30#	-	-	-	-	30 psi
50/50#	3.5/3.5KSC	3.5/3.5BR	350/350KP	50/50#	50 psi
80/80#	5.5/5.5KSC	5.5/5.5BR	550/550KP	80/80#	80 psi
100/100#	7/7KSC	7/7BR	700/700KP	100/100#	100 psi
150/150#	10/10KSC	10/10BR	1000/1000KP	150/150#	150 psi
200/200#	14/14KSC	14/14BR	1,400/1400KP	200/200#	200 psi
300/300#	20/20KSC	20/20BR	2000/2000KP	300/300#	300 psi
400/400#	28/28KSC	28/28BR	2800/2800KP	400/400#	400 psi
500/500#	35/35KSC	35/35BR	3500/3500KP	500/500#	500 psi

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Metric Ranges								
	Pressure Range		Dial Graduations		Range	Dial Graduations		Outer Range When Dual Range Specified psi
	kg/cm²	bar	Figure Interval	Minor Graduation	kPa (kilopascal)	Dial Graduations	Minor Graduation	
Type 1127	0/1.4	0/1.4	0.2	0.02	0/140	20	2	0/20
	0/2	0/2	0.5	0.05	0/200	50	5	0/28
	0/4	0/4	0.5	0.01	0/400	50	5	0/55
	0/7	0/7	0.5	0.1	0/400	50	10	0/100
	0/11	0/11	2	0.2	0/1,100	200	20	0/160
	0/14	0/14	2	0.2	0/1,400	200	20	0/200
	0/20	0/20	5	0.5	0/2,000	250	50	0/300
	0/28	0/28	5	0.5	0/2,800	500	50	0/400
	0/40	0/40	5	0.5	0/4,000	500	50	0/600
	0/56	0/56	10	1	0/5,600	1000	100	0/800
	0/70	0/70	10	1	0/7,000	1000	100	0/1000
Type 1128	0.7/0.7	0.7/0.7	0.2	0.02	70/70	20	2	10/10
	1/1	1/1	0.5	0.05	100/100	50	5	14/14
	2/2	2/2	0.1	0.01	200/200	50	5	28/28
	3.5/3.5	3.5/3.5	0.5	0.1	350/350	50	10	50/50
	5.5/5.5	5.5/5.5	2	0.2	550/550	200	20	80/80
	7/7	7/7	2	0.2	700/700	200	20	100/100
	10/10	10/10	5	0.5	1,000/1000	250	50	150/150
	14/14	14/14	5	0.5	1,400/1400	500	50	200/200
	20/20	20/20	5	0.5	2,000/2000	500	50	300/300
	28/28	28/28	10	1	2,800/2800	1000	100	400/400
	35/35	35/35	10	1	3,500/3500	1000	100	500/500

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DIMENSIONS in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings

Dial Size													
Dial Size	A	B	C	D		E	H	J	K	L		M	Weight oz / kg
				¼ NPT	½ NPT					¼ NPT	½ NPT		
4.5"	5 ⁷ / ₈ [149]	4 ³ / ₃₂ [126]	2 ⁷ / ₁₆ [62]	3 ¹⁵ / ₁₆ [100]	4 ¹ / ₁₆ [103]	1 [25]	5 ⁵ / ₁₆ [8]	7 ⁷ / ₃₂ [6]	2 ¹¹ / ₁₆ [68]	9 ⁹ / ₁₆ [14]	11 ¹¹ / ₁₆ [17]	¾ [19]	2.5
6"	7 ⁵ / ₈ [194]	6 ⁷ / ₁₆ [164]	2 ½ [64]	4 ¹⁵ / ₁₆ [125]	4 ¹⁵ / ₁₆ [125]	1 ½ [27]	5 ⁵ / ₁₆ [8]	9 ⁹ / ₃₂ [7]	3 ⁹ / ₁₆ [90]	9 ⁹ / ₁₆ [14]	11 ¹¹ / ₁₆ [17]	¾ [19]	3.5

