

1130, 1131, 1132, 1133 Differential Pressure Gauges

FEATURES

- 1130: up to 6,000 psi static pressure capability
- 1131: 3,000 psi static pressure capability
- 1132: 1,500 psi static pressure capability
- 1133: 500 psi static pressure capability
- Superior magnets for smoother pointer motion
- Reed switches (optional) for direct system control
- Dry or liquid fill case

SPECIFICATIONS

Accuracy: ±2% ascending pressure full scale differential (FSD)

Process Connection Location: In-line, lower, back

Differential Pressure Ranges:
 1130: 0-5 psid to 150 psid
 1131: 0-5 psid to 100 psid
 1132: 0-1 psid to 60 psid
 1133: 0-1 IWD to 25 IWD

Static Pressure:
 1130: up to 6,000 psi
 1131: 3,000 psi
 1132: 1,500 psi
 1133: 500 psi

Migration:
 1130: Minor
 1131, 1132, 1133: Zero

Maximum Process Temperature: 175°F (80°C)

WETTED COMPONENTS

Model	Actuator	O-Rings/Diaphragm	Body Material
1130	Teflon® Piston	Buna-N® optional materials available	Aluminum, brass or SS
1131	Rolling diaphragm	Buna-N® optional materials available	Aluminum, brass or SS
1132	Convolute diaphragm	Buna-N® optional materials available	Aluminum, brass or SS
1133	Convolute diaphragm	Buna-N® optional materials available	Aluminum or SS

Ceramic magnet & SS spring are also wetted components

NON-WETTED COMPONENTS

Model	Case Material	Window
All	SS	Glass



1130
 2", 2½", 3½", 4", 4½", 6" dial sizes



1131
 2½", 3½", 4", 4½", 6" dial sizes



1132
 2½", 3½", 4", 4½", 6" dial sizes



1133
 3½", 4", 4½", 6" dial sizes

ORDERING CODE	Example:	20	1130	A	D	25	S	XV1	5#
Dial Size									
20 - 2" (1130 only)		20							
25 - 2½" (N/A on 1133)									
35 - 3½"									
40 - 4"									
45 - 4½"									
60 - 6"									
Model									
1130 - Piston actuated			1130						
1131 - Rolling diaphragm									
1132 - Small convoluted diaphragm									
1133 - Large convoluted diaphragm									
Body Material									
A - Brass (N/A on 1133)				A					
F - Aluminum									
S - SS									
Case Fill									
D - Dry					D				
L - Liquid fill (glycerin standard)									
Process Connection Size									
25 - ¼ NPT Female						25			
Process Connection Location									
S - In-Line							S		
L - Lower									
B - Back									
Options (if choosing an option(s) must include an "X")									
BF - Surface mounting plate								X__	
CS - Dual scale									
DD - Color band (any combination of green, yellow, red)									
GE - ½ NPTF adapters									
EP - Maximum pointer (N/A on 2" case)									
FF - Front flange									
VD - Viton® O-rings/diaphragm									
EM - EPDM O-rings/diaphragm									
GV - Silicone fill									
C4 - Individual certified calibration chart									
NH - SS tag									
PD - Plastic window									
RP - Reverse porting (1130 only)									
SG - Safety glass (N/A on 2" or 2½" case)									
TM - Pipe mounting bracket, (1130 only available with in-line)									
V1 - 1-SPST switch w/DIN plug (N/A with back connection on 1130)								V1	
V2 - 1-SPST switch w/terminal strip (N/A with back connection on 1130) (N/A on 1133)									
V3 - 2-SPST switch w/DIN plug (N/A with back connection on 1130)									
V4 - 2-SPST switch w/terminal strip (N/A with back connection on 1130) (N/A on 1133)									
V5 - 1-SPDT switch w/DIN plug (N/A with back connection on 1130)									
V6 - 1-SPDT switch w/terminal strip (N/A with back connection on 1130) (N/A on 1133)									
V7 - 2-SPDT switch w/DIN plug (N/A with back connection on 1130)									
V8 - 2-SPDT switch w/terminal strip (N/A with back connection on 1130) (N/A on 1133)									
Range (coding examples only, see range table on page 71 for all standard ranges)									
5# - 5 psi									5#

Standard Differential Pressure Gauge Ranges

1130 - Single Scale			
psid	kg/cm ²	bar	kPa
-	0.25KSC	0.25BR	25KP
5#	-	-	-
8#	0.5KSC	0.5BR	50KP
10#	0.75KSC	0.75BR	75KP
15#	1KSC	1BR	100KP
20#	-	-	-
25#	1.6KSC	1.6BR	160KP
30#	2KSC	2BR	200KP
-	2.5KSC	2.5BR	250KP
40#	3KSC	3BR	300KP
50#	-	-	-
60#	4KSC	4BR	400KP
-	5KSC	5BR	500KP
80#	-	-	-
-	6KSC	6BR	600KP
100#	7KSC	7BR	700KP
-	9KSC	9BR	900KP
150#	10KSC	10BR	1000KP

1132 - Single Scale					
psid	inH ₂ O	kg/cm ²	bar	mBar	kPa
1#	25IW	0.075KSC	0.075BR	75MB	-
-	100IW	0.25KSC	0.25BR	250MB	25KP
5#	-	-	-	-	-
8#	200IW	0.5KSC	0.5BR	-	50KP
-	-	0.75KSC	0.75BR	-	75KP
15#	400IW	1KSC	1BR	-	100KP
20#	500IW	-	-	-	-
25#	-	1.6KSC	1.6BR	-	160KP
30#	-	2KSC	2BR	-	200KP
-	-	2.5KSC	2.5BR	-	250KP
40#	-	3KSC	3BR	-	300KP
50#	-	-	-	-	-
60#	-	4KSC	4BR	-	400KP

Contact factory for ranges not listed above.

1131 - Single Scale			
psid	kg/cm ²	bar	kPa
-	0.25KSC	0.25BR	25KP
5#	-	-	-
7#	0.5KSC	0.5BR	50KP
10#	0.75KSC	0.75BR	75KP
15#	1KSC	1BR	100KP
20#	-	-	-
25#	-	-	-
30#	2KSC	2BR	200KP
-	2.5KSC	2.5BR	250KP
40#	-	-	-
60#	4KSC	4BR	400KP
100#	7KSC	7BR	700KP

1133 - Single Scale	
inH ₂ O	mmH ₂ O
1IW	25MW
2IW	50MW
5IW	125MW
10IW	250MW
25IW	600MW

1134 - Single Scale (inH ₂ O)			
inH ₂ O	inH ₂ O	inH ₂ O	inH ₂ O
0.6IW	4IW	10IW	30IW
1IW	5IW	15IW	40IW
2IW	6IW	20IW	50IW
3IW	8IW	25IW	60IW

5503 & 5509 - Single Scale				
psid	mBar	bar	IWD	Notes
1#	40	0.6	10	
5#	60	1	15	
10#	100	1.6	30	
15#	160	2.5	60	
30#	250	4	100	
60#	400	6	160	
100#	-	10	200	
160#	-	16	-	
200#	-	25	-	
300#	-	-	-	
400#	-	-	-	
600#	-	-	-	5503 only