

1 MODELNO. 109 DIFFERENTIAL PRESSURE GAUGE

DIFFERENTIAL PRESSURE RANGE				
PSID	0-15 thru 0-199	0-200 thru 0-399	0-400 thru 0-999	0-1000 thru 0-6000 1% only

Model 109 General Specifications: 6" Round Dial, Weather-Resistant Case of "Engineering Plastic" With Shatter-Resistant Acrylic Lens And Panel Mounting

2 WORKING PRESSURE & MATERIAL

MODEL 109	WORKING PRESSURE	MATERIAL OF CONSTRUCTION	MODEL 109	WORKING PRESSURE	MATERIAL OF CONSTRUCTION
C	1500 P.S.I.G.	Aluminum Body, Copper Alloy Internals, 1/4" FNPT Connections (Carbon Steel)	M	1500 P.S.I.G.	Mild Carbon Steel Body, Stainless Steel Internals, 1/4" FNPT Connections (316 Stainless)
D	3000 P.S.I.G.		N	3000 P.S.I.G.	
E	6000 P.S.I.G.		P	6000 P.S.I.G.	
F	1500 P.S.I.G.	Aluminum Body, Stainless Steel Internals, 1/4" FNPT Connections (316 Stainless)	Q	1500 P.S.I.G.	316 Stainless Steel Body, Stainless Steel Internals, 1/4" Connections (316 Stainless)
G	3000 P.S.I.G.		R	3000 P.S.I.G.	
H	6000 P.S.I.G.		T	6000 P.S.I.G.	
J	1500 P.S.I.G.	Mild Carbon Steel Body, Copper Alloy Internals, 1/4" FNPT Connections (Carbon Steel)	U	1500 P.S.I.G.	Brass Body, Copper Alloy Internals, 1/4" FNPT Connections (Brass)
K	3000 P.S.I.G.		V	500 P.S.I.G.	Brass Body, Copper Alloy Internals, 1/4" FNPT Connections (Brass)
L	6000 P.S.I.G.		X	1500 P.S.I.G.	Brass Body, Stainless Steel Internals, 1/4" FNPT Connections (316 Stainless)
			Y	500 P.S.I.G.	Brass Body, Stainless Steel Internals, 1/4" FNPT Connections (316 S.S.)

3 DIAL TYPE & ACCURACY

- E. ±1% Full Scale Accuracy, Uni-Directional (Standard)
- *F. ±1% Total Span Accuracy, Bi-Directional (±3% Above 1500-0-1500 P.S.I.)
- G. ±1/2% Full Scale Accuracy, Uni-Directional (Not Available Above 1000 PSID)
- Z. Special (Uncoded Options)

***NOTE:**(Bi-directional ranges are additive when pricing differential range - i.e. 10-0-10 = 20, etc.)

4 SEALS

- 0. Buna N (Standard)
 - 1. *Viton®
 - 2. Neoprene
 - 5. Ethylene Propylene
 - 6. Perfluorelastomer
 - 9. Special (Uncoded Options)
- NOTE:** The use of Diaphragm seals is not recommended for the model 109 series gauges. Attempts to install such seals will void the warranty
- *Viton® is a Registered Trademark of DuPont Dow Elastomers.

5 CONNECTIONS (2 each)

- 0. 1/4" FNPT Connections (Carbon Steel) (Standard)
- 1. 1/4" Stainless Steel Compression Tube Fittings
- 2. 1/4" Brass FNPT Adaptors
- 3. 1/4" Stainless Steel FNPT Adaptors (Standard on Stainless Steel Gauges)
- 4. 1/2" Brass FNPT Adaptors
- 5. 1/2" Stainless Steel FNPT Adaptors
- 6. 7/16"-20 Str. Thd. O-Ring Adaptors
- 9. Special (Uncoded Options)

6 OPTIONS

- O. None
- B. Drain & Bleed Connections. (1/8" FNPT), Brass
- C. Drain & Bleed Connections, (1/8" FNPT), 316 SS
- F. Pipe Mounting Kit (Standard on Explosion Proof Locked Logic Units)
- L. Liquid Filled
- M. Follower Pointer (Not Available w/Liquid Fill)
- S. Shatterproof Lens
- T. Oxygen Cleaning
- U. S.S. Tag with S.S. Wire
- V. S.S. Tag with S.S. Screws
- W. Wall Mounting Bracket
- Y. 4-1/2" Round Dial
- Z. Special (uncoded Options)

NOTE: Not all options available in combination with other options.

7 ELECTRICAL CONFIGURATIONS (If Required) (See Page 6)

8 ELECTRICAL SPECIFICATIONS (If Required) (See Page 6)

PART NUMBERING SYSTEM

- ① BASIC MODEL NUMBER
- ② WORKING PRESSURE, MATERIAL
- ③ DIAL TYPE, ACCURACY

- ④ SEALS
- ⑤ CONNECTIONS (Up to four options)
- ⑥ OPTIONS (Up to four options)
- ⑦ ELECTRICAL CONFIGURATIONS (Up to three options)
- ⑧ ELECTRICAL SPECIFICATIONS (Up to three options)

**“LOCKED LOGIC” SOLID STATE ALARM-CONTROL
FOR ALL 105, 106 & 109 GAUGES
(NOTE - 6” DIAL SIZE ONLY)**

7 ELECTRICAL CONFIGURATIONS

SELECT APPROPRIATE MODEL BELOW AND ADD LETTER IN LOCATION 7 IN PART NUMBER.

- 0. NONE
- A. 1 Control switch in Weatherproof Enclosure
- B. 2 Control switches in Weatherproof Enclosure
- C. 1 Control switch in Class 1, Group B, C & D Explosion-Proof Enclosure with Pipe Mounting Kit **Standard**
- D. 2 Control switches in Class 1, Group B, C & D Explosion-Proof Enclosure with Pipe Mounting Kit **Standard**
- Z. Special (Uncoded Options)

NOTE: Standard Control Relays are SPDT

8 ELECTRICAL SPECIFICATIONS

SELECT APPROPRIATE MODEL BELOW AND ADD LETTER (IF REQUIRED) IN LOCATION 8 IN PART NUMBER.

• **INPUT OPTIONS**

- A. 8 to 28 VDC**STANDARD**
- B. 115 VAC, 50/60 Hz**STANDARD**
- C. 220/240 VAC, 50/60 Hz**OPTIONAL**
- D. 115 VDC**OPTIONAL**
- E. Standby Battery Pack, 9 VDC, 115 VAC, 50/60 Hz**OPTIONAL**
- F. Standby Battery Pack, 9 VDC, 220/240 VAC, 50/60 Hz**OPTIONAL**
- Z. Special (Uncoded Options)**CONTACT FACTORY**

- **OUTPUT OPTIONS** (Resistive Load) (Specify One) – 10 Amp. @ 28 VDC, 115/230 VAC (50/60 Hz)
(1/2” NPT, 24” Flying Leads Standard Interface)
(3/4” NPT, 24” Flying Leads for two (2) DPDT Switches)

- A. SPDT Relay(s)**STANDARD**
- C. DPDT Relay(s) (Available for two (2) set points)**OPTIONAL**
- D. Adjustable Deadband, One (1) SPDT Output (Two (2) Control Switches Only)**OPTIONAL**
- E. Adjustable Deadband, One (1) DPDT Output (Two (2) Control Switches Only)**OPTIONAL**
- Z. Special (Uncoded Options)**CONTACT FACTORY**

- **ELECTRICAL LEADS** (2 ft.) in weatherproof or flexible metal conduit
(Specify When Ordering)

- **EXTRALENGTH ELECTRICAL LEADS (OVER 2 FT.) (Specify When Ordering)**

- Weatherproof Flexible Conduit (per foot)
- Flexible metal conduit (per foot)

NOTE: NOT ALLOPTIONS AVAILABLE IN COMBINATION WITH OTHER OPTIONS