

# Mid-West<sup>®</sup> Instrument

## MODEL SPECIFICATIONS

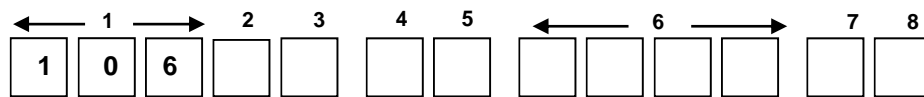
**Example Model Number Sequence: 105-FE-00-00 / 106-FE-00-00**

1500 PSIG Working Pressure, Aluminum Body, Stainless Steel Bellows, Stainless Steel Internals  
 Buna-N Seals, 1/4" FNPT Dual Top & Bottom Connections, 6" Uni-Directional Round Dial,  
 Weather Resistant Engineered Plastic Case with Shatter Resistant Acrylic Lens,  
 Accuracy ±1% Full Scale (Ascending)

**Range 105: 0-10 IN H2O to 0-79.9 IN H2O (0-.4 PSID to 0-2.9 PSID)**

**Range 106: 0-80 IN H2O to 0-800 IN H2O (0-3 PSID to 0-30 PSID)**

*Gauge Body and Internal components are considered wetted parts.*



Basic Model

Range: \_\_\_\_\_

2	Material (Not All Options Available in Combination with other Options)
F	1500 PSIG, Aluminum Body, Stainless Steel Internals
G	3000 PSIG, Aluminum Body, Stainless Steel Internals
M	1500 PSIG, Mild Carbon Steel Body, Stainless Steel Internals
N	3000 PSIG, Mild Carbon Steel Body, Stainless Steel Internals
Q	1500 PSIG, 316 Stainless Steel Body, Stainless Steel Internals
R	3000 PSIG, 316 Stainless Steel Body, Stainless Steel Internals
T	6000 PSIG, 316 Stainless Steel Body, Stainless Steel Internals
X	1500 PSIG, Brass Body, Stainless Steel Internals
Y	500 PSIG, Brass Body, Stainless Steel Internals
3	Dial Size Type
E	Accuracy ±1% Full Scale Uni-Directional Dial w/Engineered Plastic Dial Case <i>(Standard)</i>
F	Accuracy ±1% Total Span Bi-Directional Dial w/Engineered Plastic Dial Case
G	Accuracy ±1/2% Full Scale Uni-Directional Dial w/Engineered Plastic Dial Case <i>(30" WC &amp; above only)**</i>
Z	Special <i>(Un-coded Options)</i> <b>Note **G - Option not available for square root dials</b>
4	Seal Materials
0	Buna-N <i>(Standard)</i>
1	Viton®-A Registered Trademark of Dupont
5	Neoprene
9	Special <i>(Un-coded Options)</i>
5	Process Connections
0	1/4" FNPT Top & Bottom Connections <i>(Standard)</i>
9	Special <i>(Un-coded Options)</i>

**Proof Pressure:** Two times rated working pressure or 10,000 PSI whichever is lower at ambient temperature.

**Temperature Limits:**  
 "Gauge Only" -40°F (-40°C) to +200°F (+95°C)  
 "Locked Logic Switch" -40°F (-40°C) to +160°F (+70°C)  
 "Micro Switch" -20°F (-29°C) to +185°F (+85°C)

These limits are based on the entire instrument being saturated to these temperatures. System (process) temperatures may exceed these limitations with proper installation. Contact our customer service representative for details.

## Model 105/106 - continued

6	Additional Options
O	NONE
F	Carbon Steel 2" Pipe Mounting Kit
G	Stainless Steel 2" Pipe Mounting Kit
H	1/4" Carbon Steel Compression Tube Fittings
J	1/4" Stainless Steel Compression Tube Fittings
K	1/2" FNPT Stainless Steel Adapters
N	NACE <i>(Available for Aluminum &amp; Stainless Steel Gauge Bodies only)</i>
Q	CRN (Canadian Registration Number) <i>Available only for Model 105Q and Model 106Q</i>
S	Shatter Proof Glass Lens
T	Oxygen Cleaning
U	Stainless Steel Tag with S.S. Wire
V	Stainless Steel Tag and S.S. Screw
W	Wall Mount Kit
Y	4-1/2" Dial Case
Z	Special <i>(Un-coded Options)</i>
7	Electrical Configurations Note: G,H,J & K switch option (high port on right when facing dial)
A	One (1) Switch in Weather Proof enclosure
B	Two (2) Switches in Weather Proof enclosure
C	One (1) Switch in explosion proof enclosure Class 1, Groups B, C, & D <i>(Pipe Mounting Kit Standard)</i>
D	Two (2) Switch in explosion proof enclosure Class 1, Groups B, C, & D <i>(Pipe Mounting Kit Standard)</i>
G	One (1) Micro-Switch in Weather Resistant Enclosure (2) (MODEL 106 0-80" to 0-800" H2O only) <i>Accuracy ±2%</i>
H	Two (2) Micro-Switches in Weather Resistant Enclosure (MODEL 106 0-80" to 0-800" H2O only) 0-80" - 199" H2O Accuracy ±4% / 0-200" H2O and above <i>Accuracy ±2% (1) (2)</i>
J	One (1) Micro-Switch in Weather Resistant Housing with Condulet Enclosure (2) (MODEL 106 0-80" to 0-800" H2O only) <i>Accuracy ±2%</i>
K	Two (2) Micro-Switches in Weather Resistant Housing with Condulet Enclosure (MODEL 106 0-80" to 0-800" H2O only) 0-80" - 199" H2O Accuracy ±4% / 0-200" H2O and above <i>Accuracy ±2% (1) (2)</i>
Z	Special <i>(Un-coded Options)</i>
(1) Accuracies & repeatability values for (2) switch units are based upon (1) switch set low (approx. 25% for FSR) and (1) switch set high (2) CSA Listed, Type 4, Industrial Control Equipment	
8	"Input Options" Electrical Specifications (Select (1) input and (1) output option)
A	8-28 Vdc
B	115 VAC 50/60 Hz
C	220/240 VAC 50/60Hz
N	No Input Required for Micro-Switch Options: G, H, J & K
Z	Special <i>(Un-coded Options)</i>
9	"Output Options" (Resistive Load)
<b>(Resistive load) – 10 Amp @ 28 VDC, 115/230 VAC (50/60 Hz)</b> (1/2" NPT, 24" Flying Leads standard interface) (1/2" NPT, 24" Flying for two (2) DPDT switches)	
A	SPDT Relays
C	SPST Relays
D	Adjustable Deadband, one (1) SPDT output (two (2) control switches only)
E	Adjustable Deadband, one (1) DPDT output (two (2) control switches only)
<b>Micro Switch Electrical Interface:</b> 18", 18 Awg, 600 V, 105°C / Color coded wire leads from 1/2" FNPT Connection	
M	SPDT Micro-Switch Contact Ratings: <b>(MAX)</b> 4 Amps @ 30 VDC / 3 Amps @ 240VAC / 5 Amps @ 120 VAC
Z	Special <i>(Un-coded Options)</i>
<b>Factory preset switches at no charge (Specify Setting) / Contact factory for bi-directional scales</b>	

**NOTE:** The use of Diaphragm seals is not recommended for Model 105/106 gauges.  
Attempts to install such seals on these gauges will void warranty.