



## Product specifications for model 1804

### Product Specifications with Reed Switches or Relays

<b>sensor type</b>	diaphragm
<b>functions</b>	<b>gauge/switch, switch</b>
<b>min. range</b>	0-10 in. H <sub>2</sub> O for stainless steel units
<b>max. range</b>	0-8 psid (221.44 in. H <sub>2</sub> O)
<b>max. line pressure</b>	150 psig for stainless steel units
<b>min. burst pressure</b>	450 psig (SS); tested hydrostatically
<b>standard maximum temperature</b>	gauge/switch: 176°F standard, 150°F (plastic lens) switch: 176°F standard, 140°F (relay)
<b>high temp. construction</b>	N/A
<b>minimum temperature</b>	-40°F
<b>calibration accuracy**</b>	±2% of full scale ascending after rap at room temperature <i>**Calibration accuracy is affected by temperature, and also by liquid-filling and follower-pointer options.</i>
<b>repeatability</b>	±1% of full scale
<b>switches/relays</b>	1 or 2 hermetically sealed reed switches or 1 or 2 relays in explosion proof enclosure
<b>switch adjustability</b>	upper 80% of full scale ascending (70% for B & C form switches in SST)
<b>switch dead band</b>	5-20% full scale
<b>certification</b>	NEMA 3, 4X, IP66 7BCD, 9EFG, 12

### Standard configuration options with Reed Switches or Relays

<b>configuration</b>	<b>unless otherwise specified</b>	<b>standard options available</b>
<b>porting size</b>	1/4" NPT	1/8" NPT, 1/2" NPT
<b>porting orientation</b>	in-line	N/A
<b>direction of pressure</b>	bottom to top (dial reads left to right)	N/A
<b>calibration medium</b>	air	N/A
<b>switches &amp; relay</b>	(must be specified)	-A SPST N/O (120VAC,0.7A,70VA;200VDC,1.0A,50W) -B SPST N/C (120VAC,0.25A,5VA;175VDC,0.25A,5W) -C SPDT (120VAC,0.25A,5VA;175VDC,0.25A,5W) -R1 DPDT relay (contacts:120VAC,28VDC,10A coil:6 to 240VAC,6 to 110VDC)
<b>switch/relay setting</b>	set at top of range ascending	other set points within adjustability ascending or descending
<b>explosion proof enclosure</b>	standard box: Class I, Div 1&2, groups B, C & D Class II, groups E, F, G Class III	N/A
<b>prim. wetted parts</b>	(must be specified)	316SS
<b>secondary wetted parts</b>	range spring: 302SS magnet: ceramic	Teflon-coated spring and magnet
<b>static seals</b>	buna-N, except Viton for high temp.	Viton, Teflon, EPDM, fluorosilicone, silicone
<b>diaphragm</b>	buna-N, except Viton for high temp.	Viton, EPDM, fluorosilicone, silicone
<b>lens</b>	glass	plastic
<b>dial sizes</b>	(must be specified)	3.5", 4.5", 6"
<b>dial case styles<sup>+</sup></b>	(must be specified)	"B" Basic Case (c-clamp not available) "F" Flanged Case (w/holes for panel mounting)
<b>starting mark on dial</b>	approximately 10% of full scale	N/A

**Product specifications for model 1804**
**Product Specifications, with transmitter**

<b>sensor type</b>	piston
<b>functions</b>	<b>gauge/transmitter, transmitter (Loop powered)</b>
<b>min. range</b>	0-5 psid
<b>max. range</b>	0-150 psid
<b>max. line pressure</b>	5000 psig
<b>min. burst pressure</b>	20000 psig
<b>standard max. temperature</b>	gauge/transmitter: 200°F (glass lens), 150°F (plastic lens) transmitter: 200°F
<b>high temperature construction</b>	N/A
<b>minimum temperature</b>	-20°F
<b>calibration accuracy*</b>	±2% of full scale ascending after rap at room temperature <i>*Calibration accuracy is compensated for temperature effects between 32°F - 200°F.</i>
<b>repeatability</b>	±2% of full scale
<b>transducer enclosure</b>	explosion-proof
<b>certification/rating</b>	NEMA 3, 4X, IP66 7BCD, 9EFG, 12

**Standard configuration options, with transmitter**

<b>configuration</b>	<b>unless otherwise specified</b>	<b>standard options available</b>
<b>porting size</b>	1/4" NPT	1/8" NPT, 1/2" NPT
<b>porting orientation</b>	(must be specified)	side or back porting
<b>direction of pressure</b>	bottom to top (dial reads left to right)	right to left (upside-down orientation with arc on bottom)
<b>calibration medium</b>	hydraulic oil	N/A
<b>electronic outputs</b>	analog outputs: 4-20 mA (2 wire) 0-5 VDC (3 or 4 wire)	
<b>supply voltage</b>	9-35 VDC (reverse polarity protected)	
<b>loop resistance</b>	1300 ohms max. $R = ((V_s - 9) * 1000) / 20$ (ohms at $V_s$ )	
<b>board connection</b>	<b>1:</b> + (EXC) <b>2:</b> - <b>3:</b> 0-5 V <b>4:</b> GND	20-26 AWG wire
<b>primary wetted parts</b>	(must be specified)	aluminum, 316SS
<b>secondary wetted parts</b>	range spring: 302SS magnet: ceramic piston seal: Teflon	Teflon-coated spring and magnet
<b>static seals</b>	buna-N	Viton, Teflon, neoprene, fluorosilicone
<b>lens</b>	glass	plastic
<b>dial sizes</b>	(must be specified)	3.5", 4.5", 6"
<b>dial case styles<sup>+</sup></b>	(must be specified)	"B" Basic Case ( <i>C-clamp not available</i> ) "F" Flanged Case (w/holes for panel mounting)
<b>starting mark on dial</b>	approximately 10% of full scale	N/A