

Product specifications for model 1804

Product Specifications (switch, relay)

sensor type	diaphragm
functions	gauge/switch, switch
min. range	0-10 in. H ₂ O
max. range	0-8 psid (221 in. H ₂ O)
max. line pressure	150 psig
min. burst pressure	450 psig
standard maximum temperature	gauge/switch: 176°F standard, 150°F (plastic lens) switch: 176°F standard, 140°F (relay)
high temp. construction	N/A
minimum temperature*	<i>*Consult factory for low-temperature applications.</i>
calibration accuracy**	±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>
repeatability	±1% of full scale
switches/relays	1 or 2 hermetically sealed reed switches or 1 or 2 relays in explosion proof enclosure
switch adjustability	upper 80% of full scale ascending (70% for B & C form switches in SST)
switch dead band	5-20% full scale
certification	CSA (File 080299), NEMA 3, 4X, IP66, 7BCD, 9EFG, 12 Class I (Groups B, C & D) Class II (Groups E, F, G) Class III

Standard configuration options (switch, relay)

configuration	unless otherwise specified	standard options available
porting size	1/4" NPT	1/2" NPT
porting orientation	in-line	N/A
direction of pressure	bottom to top (dial reads left to right)	N/A
calibration medium	air	N/A
switches & relay	(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:120VAC or 24VDC)
switch/relay setting	set at top of range ascending	other set points within adjustability ascending or descending
explosion proof enclosure	standard box: Class I, Div 1&2, groups B, C & D Class II, groups E, F, G Class III	N/A
prim. wetted parts	316SS	N/A
secondary wetted parts	range spring: 302SS magnet: ceramic	Teflon-coated spring and magnet
static seals	buna-N, except Viton for high temp.	Viton, Teflon, EPDM, fluorosilicone, silicone
diaphragm	buna-N, except Viton for high temp.	Viton, EPDM, fluorosilicone, silicone
lens	glass	plastic
dial sizes	(must be specified)	3.5", 4.5", 6"
dial case styles	(must be specified)	"B" Basic Case (c-clamp not available) "F" Flanged Case (w/holes for panel mounting)
starting mark on dial	approximately 10% of full scale	N/A

Product specifications for model 1804

Product Specifications (transmitter)

sensor type	diaphragm
functions	gauge/transmitter, transmitter (Loop powered)
min. range	0-10 in. H ₂ O
max. range	0-8 psid (221 in. H ₂ O)
max. line pressure	150 psig
min. burst pressure	450 psig
standard max. temperature	gauge/transmitter: 200°F (glass lens), 150°F (plastic lens) transmitter: 200°F
high temperature construction	N/A
minimum temperature	-20°F
calibration accuracy*	±2% of full scale ascending after rap at room temperature <i>*Calibration accuracy is compensated for temperature effects between -20°F - 200°F.</i>
repeatability	±1% of full scale
transducer enclosure	explosion-proof
certification/rating	NEMA 3, 4X, IP66, 7BCD, 9EFG, 12

Standard configuration options (transmitter)

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