
Product specifications for model 1833

Product Specifications (switch, relay)

sensor type	diaphragm
functions	gauge/switch, switch
min. range	0-5 in. H ₂ O
max. range	0-8 psid (221 in. H ₂ O)
max. line pressure	150 psig
min. burst pressure	250 psig, tested hydrostatically
standard maximum temperature	gauge: 200°F standard, 150°F (plastic lens) 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/relay	1 or 2 hermetically sealed reed switches or 1 relay in weatherproof 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 Class I, DIV. 2, Groups A, B, C & D; Class II, DIV. 2, Groups F & G (File 152872) NEMA 4X, IP65, CE

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	left to right	right to left (reverse porting)
calibration medium	air	N/A
switches & relays	(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) -R2 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
primary wetted parts	316 SS	N/A
secondary wetted parts	range spring: 302 SS 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 1833

Product Specifications (transmitter)

sensor type	diaphragm
functions	gauge/transmitter, transmitter (loop powered)
min. range	0-5 in. H ₂ O
max. range	0-8 psid (221 in. H ₂ O)
max. line pressure	150 psig
min. burst pressure	250 psig; tested hydrostatically
standard maximum temperature	gauge/transmitter: 200°F (glass lens), 150°F (plastic lens) transmitter: 200°F
high temp. 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	weatherproof
certification	CSA Class I, DIV. 2, Groups A, B, C & D; Class II, DIV. 2, Groups F & G (File 152872) NEMA 4X, IP65, CE

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	left to right	right to left (upside down orientation with arc on bottom)
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: COM	20-26 AWG wire
conduit connection	1/2" trade size	
primary wetted parts	316 SS	N/A
secondary wetted parts	range spring: 302 SS magnet: ceramic	Teflon-coated spring and magnet
static seals	buna-N	Viton, Teflon, neoprene, EPDM, fluorosilicone, silicone
diaphragm	buna-N	Viton, EPDM, fluorosilicone, silicone
lens	glass	plastic
dial sizes	(must be specified)	2.5", 3.5", 4.5", 6"
dial case styles	(must be specified)	"B" Basic Case (<i>C-clamp not available</i>) "F" Flanged Case (<i>w/holes for panel mounting</i>)
starting mark on dial	approximately 10% of full scale	N/A