
Product specifications for model 1833

Product Specifications, with reed switches or relays

sensor type	diaphragm
functions	gauge/switch, switch
min. range	0-5 in. H ₂ O
max. range	0-8 psid (221.44 in. H ₂ O)
max. line pressure	100 psig for aluminum units, 150 psig for stainless steel units
min. burst pressure	200 psig (alum), 250 psig (SS); 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	-40°F
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, with reed switches or relays

configuration	unless otherwise specified	standard options available
porting size	1/4" NPT	1/8" 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:6 to 240VAC,6 to 110VDC)
switch/relay setting	set at top of range ascending	other set points within adjustability ascending or descending
primary wetted parts	(must be specified)	aluminum, 316SS
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 1833

Product Specifications, with transmitter

sensor type	piston
functions	gauge/transmitter, transmitter (Loop powered)
min. range	0-5 psid
max. range	0-150 psid
max. line pressure	5000 psig
min. burst pressure	15000 psig
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	±2% 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, with transmitter

configuration	unless otherwise specified	standard options available
porting size	1/4" NPT	1/8" NPT, 1/2" NPT, AND, MS
porting orientation	in-line	N/A
direction of pressure	left to right	N/A
calibration medium	all units with EPDM seals: water all others: alum or SS: hydraulic oil brass : water	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. $R=((Vs-9)*1000)/20$ (ohms at Vs)	
board connection	1: + (EXC) 2: - 3: 0-5 V 4: COM	20-26 AWG wire
conduit connection	1/2" trade size	
primary wetted parts	(must be specified)	aluminum, 316SS, naval brass
secondary wetted parts	range spring: 302SS magnet: ceramic piston seal: Teflon	Teflon-coated spring and magnet
static seals	buna-N	Viton, Teflon, neoprene, EPDM, fluorosilicone
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 (w/holes for panel mounting)
starting mark on dial	approximately 10% of full scale	N/A