

## Product specifications for model 1833

### Product Specifications (gauge/switch, gauge/relay)

sensor type	diaphragm
functions	<b>gauge/switch, gauge/relay</b>
min. range	0-5 in. H <sub>2</sub> O
max. range	0-8 psid (221 in. H <sub>2</sub> 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) gauge/relay: 140°F
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 (gauge/switch, gauge/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 (1 relay) contacts: 120VAC, 28VDC, 10A coil: 120VAC, (24VDC available upon request)
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 (gauge/transmitter)

<b>sensor type</b>	diaphragm
<b>functions</b>	<b>gauge/transmitter</b>
<b>min. range</b>	0-5 in. H <sub>2</sub> O
<b>max. range</b>	0-8 psid (221 in. H <sub>2</sub> O)
<b>max. line pressure</b>	150 psig
<b>min. burst pressure</b>	250 psig; tested hydrostatically
<b>standard maximum temperature</b>	200°F (glass lens), 150°F (plastic lens)
<b>high temp. 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 -20°F - 200°F</i>
<b>repeatability</b>	±1% of full scale
<b>transducer enclosure</b>	weatherproof
<b>certification</b>	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 (gauge/transmitter)

configuration	unless otherwise specified	standard options available
<b>porting size</b>	1/4" NPT	1/2" NPT
<b>porting orientation</b>	in-line	N/A
<b>direction of pressure</b>	left to right	right to left (upside down orientation with arc on bottom)
<b>calibration medium</b>	air	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 <sub>s</sub> )	
<b>board connection</b>	1: + (EXC) 2: - 3: 0-5 V 4: COM	20-26 AWG wire
<b>conduit connection</b>	1/2" trade size	
<b>primary wetted parts</b>	316 SS	N/A
<b>secondary wetted parts</b>	range spring: 302 SS magnet: ceramic	Teflon-coated spring and magnet
<b>static seals</b>	buna-N	Viton, Teflon, neoprene, EPDM, fluorosilicone, silicone
<b>diaphragm</b>	buna-N	Viton, EPDM, fluorosilicone, silicone
<b>lens</b>	glass	plastic
<b>dial sizes</b>	(must be specified)	2.5", 3.5", 4.5", 6"
<b>dial case styles</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