

Product specifications for model 1831

Product Specifications

sensor type	diaphragm
functions	gauge, 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	150 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
high temperature construction	gauge: 350°F (stainless steel only, not available in aluminum) gauge/switch, switch: 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
switch & enclosure	1 or 2 external
switch adjustability	upper 80% of full range ascending, or lower 80% of full range descending
switch differential	5-20% full scale
certification	CSA (File 043810), CE

Standard configuration options

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	(must be specified)	-A (0.7A/50W SPST) -B (0.25A/3W SPST) -C (0.25A/3W SPDT)
switch setting	set at top of range ascending set N/O to close (SPST reed) set to actuate (SPDT reed, relay)	other set points within adjustability ascending or descending
primary wetted parts material	(must be specified)	aluminum, 316SS
secondary wetted parts material	range spring: 302SS magnet: ceramic	Teflon-coated spring and magnet
static seals material	buna-N, except Viton for high temp.	Viton, Teflon, EPDM, fluorosilicone, silicone
diaphragm material	buna-N, except Viton for high temp.	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) [†] C-clamp not available	bezel case (2.5", 3.5", 4.5") drilled flange (all sizes) machined case (3.5", 4.5", 6")
starting mark on dial	approximately 10% of full scale	N/A