

Product specifications for model 1514

Product Specifications (switch)

sensor type	diaphragm
functions	gauge/switch, switch
min. range	0-1 psid
max. range	0-50 psid
max. line pressure	1500 psig
min. burst pressure	6000 psig, tested hydrostatically
standard maximum temperature	gauge/switch: 176°F standard, 150°F (plastic lens) switch: 176°F 140°F (relay)
high temp. construction	300°F
minimum temperature*	* Consult factory for low-temperature applications.
calibration accuracy**	±2% of full scale ascending after rap at room temperature *Calibration accuracy is affected by temperature, and also by liquid-filling and follower-pointer options.
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)

configuration	unless otherwise specified	standard options available
porting size	1/4" NPT	1/2" NPT
porting orientation	side porting	N/A
direction of pressure	bottom to top (dial reads left to right)	N/A
calibration medium	air	N/A
switches	(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: 6 to 240VAC, 6 to 110VDC)
switch 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
diaphragm	Buna-N, except Viton for high temp.	Viton EPDM and Fluorosilicone available in ranges up to 5 PSID
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 1514

Product Specifications (transmitter)

sensor type	diaphragm	
functions	gauge/transmitter, transmitter (Loop powered)	
min. range	0-1 psid	
max. range	0-50 psid	
max. line pressure	1500 psig	
min. burst pressure	6000 psig	
standard max. 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	explosion-proof	
certification/rating	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 (transmitter)

configuration	unless otherwise specified	standard options available
porting size	1/4" NPT	1/2" NPT
porting orientation	side porting	N/A
direction of pressure	bottom to top (dial reads left to right)	upside-down orientation (dial reads right to left, 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. GND	20-26 AWG wire
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	Viton, Teflon, EPDM, fluorosilicone
diaphragm	Buna-N	Viton EPDM and Fluorosilicone available in ranges up to 5 PSID
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