

## Product specifications for model 1516

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

<b>sensor type</b>	diaphragm
<b>functions</b>	<b>gauge, gauge/switch, (switch 316 SST only)</b>
<b>min. range</b>	0-25 in.H2O
<b>max. range</b>	0-50 psid
<b>max. line pressure</b>	1500 psig
<b>min. burst pressure</b>	6000 psig, tested hydrostatically
<b>standard maximum temperature</b>	gauge: 200°F standard, 150°F (plastic lens) gauge/switch: 176°F reed switch, 140°F relay, 150°F (plastic lens) switch: 176°F reed switch, 140°F relay
<b>high temp. construction</b>	gauge: 450°F (SST only, not available in alum. or brass) gauge/switch, switch: 300°F
<b>minimum temperature*</b>	<i>*Consult factory for low temperature applications</i>
<b>calibration accuracy**</b>	±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>
<b>repeatability</b>	±1% of full scale
<b>switches/relays</b>	1 or 2 hermetically sealed reed switches or 1 relay in weatherproof enclosure
<b>switch adjustability</b>	upper 80% of full scale ascending (70% for B & C form switches in SST)
<b>switch dead band</b>	5-20% full scale
<b>certification</b>	CSA Class I,DIV. 2,Groups A,B,C & D; Class II,DIV. 2,Groups F & G (File 152872) (switches only) NEMA 4X,IP65,CE

### Standard configuration options (gauge, switch, relay)

<b>configuration</b>	<b>unless otherwise specified</b>	<b>standard options available</b>
<b>porting size</b>	1/4" NPT	1/2" NPT (1/2" NPT N/A for brass in-line)
<b>porting orientation</b>	(must be specified)	in-line, back, or bottom
<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>switches &amp; relays</b>	(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)
<b>switch/relay setting</b>	set at top of range ascending	other set points within adjustability ascending or descending
<b>primary wetted parts</b>	(must be specified)	aluminum, 316SS, naval brass
<b>secondary wetted parts</b>	range spring: 302SS magnet: ceramic	Teflon-coated spring and magnet
<b>static seals</b>	Buna-N, except Viton for high temp.	Viton, Teflon, EPDM, fluorosilicone
<b>diaphragm</b>	Buna-N, except Viton for high temp.	Viton EPDM and Fluorosilicone available in ranges up to 5 PSID
<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 (C-clamp not available with some porting options) "F" Flanged Case (w/holes for panel mounting)
<b>starting mark on dial</b>	approximately 10% of full scale	N/A

## Product specifications for model 1516

### Product Specifications (transmitter)

<b>sensor type</b>	diaphragm
<b>functions</b>	<b>gauge/transmitter, transmitter (loop powered)</b>
<b>min. range</b>	0-25 in.H2O
<b>max. range</b>	0-50 psid
<b>max. line pressure</b>	1500 psig
<b>min. burst pressure</b>	6000 psig, tested hydrostatically
<b>standard maximum temperature</b>	gauge/transmitter: 200°F (glass lens), 150°F (plastic lens) transmitter: 200°F
<b>high temp. construction</b>	N/A
<b>minimum temperature</b>	<i>*Consult factory for low temperature applications</i>
<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>	±2% 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) (switches only) NEMA 4X, IP65 <i>*Consult factory for CE equivalent.</i>

### Standard configuration options (transmitter)

configuration	unless otherwise specified	standard options available
<b>porting size</b>	1/4" NPT	1/2" NPT (1/2" NPT N/A for brass in-line)
<b>porting orientation</b>	In-line	NA
<b>direction of pressure</b>	left to right	N/A
<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. $R = ((Vs-9) * 1000) / 20$ (ohms at Vs)	
<b>board connection</b>	<b>1:</b> + (EXC) <b>2:</b> - <b>3:</b> 0-5 V <b>4:</b> COM	20-26 AWG wire
<b>conduit connection</b>	1/2" trade size	
<b>primary wetted parts</b>	(must be specified)	aluminum, 316SS, naval brass
<b>secondary wetted parts</b>	range spring: 302SS magnet: ceramic	Teflon-coated spring and magnet
<b>static seals</b>	Buna-N	Viton, Teflon, EPDM, fluorosilicone
<b>diaphragm</b>	Buna-N	Viton EPDM and Fluorosilicone available in ranges up to 5 PSID
<b>lens</b>	glass	plastic
<b>dial sizes</b>	(must be specified)	2.5", 3.5", 4.5", 6"
<b>dial case styles<sup>+</sup></b>	(must be specified)	"B" Basic Case ( <i>C-clamp not available</i> ) "F" Flanged Case ( <i>w/holes for panel mounting</i> )
<b>starting mark on dial</b>	approximately 10% of full scale	N/A