

## Product specifications for model 1020

### Product Specifications

<b>sensor type</b>	diaphragm
<b>functions</b>	<b>indicator, indicator/switch, switch</b>
<b>min. break pt./set pt.</b>	0-25" H <sub>2</sub> O
<b>max. range break pt./set pt.</b>	0-30 psid
<b>max. line pressure</b>	1000 psig
<b>min. burst pressure</b>	4000 psig
<b>standard maximum temperature</b>	indicator: 200°F indicator/switch, switch: 176°F
<b>high temp. construction</b>	N/A
<b>minimum temperature</b>	-20°F
<b>calibration accuracy*</b>	±5% of standard calibration point** ascending after rap at room temperature *Calibration accuracy is affected by temperature. **Standard calibration point is the highest calibrated point or 70% of full scale, whichever is larger.
<b>repeatability</b>	±2% of standard calibration point
<b>switches</b>	1 or 2 external hermetically sealed reed switches
<b>switch adjustability</b>	factory set (upper 80% of standard calibration point ascending, or lower 80% of standard calibration point descending)
<b>switch dead band</b>	5-20% full scale
<b>certification</b>	CE

### Standard configuration options

configuration	unless otherwise specified	standard options available
<b>porting size</b>	1/8" NPT	N/A
<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</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)
<b>switch setting</b>	set at break point ascending	other set points within adjustability ascending or descending
<b>primary wetted parts</b>	aluminum	N/A
<b>secondary wetted parts</b>	range spring: 302SS magnet: ceramic	
<b>static seals</b>	buna-N	Viton, fluorosilicone, neoprene, EPDM
<b>diaphragm</b>	buna-N	Viton, fluorosilicone, neoprene, EPDM, silicone
<b>dial sizes &amp; case styles</b>	(must be specified)	1" with molded lens, 2.5" with bezel case
<b>lens</b>	1" dial: molded plastic 2.5" dial: glass	plastic lens available for 2.5" dial size
<b>dial markings</b>	colored arc, green to red (single break point)	2.5" dials only: quantity dial (E, ¼, ½, ¾, F) dual break points
<b>break point on dial</b>	70% of full scale	N/A
<b>starting mark on dial</b>	1/4 of full scale for quantity dials	N/A

## Product specifications for model 1020

### Product Specifications, (with –T3 or –T4 transmitter)

<b>sensor type</b>	diaphragm
<b>functions</b>	indicator/transmitter, transmitter
<b>min. range</b>	0-25" H <sub>2</sub> O
<b>max. range</b>	0-10 psid
<b>max. line pressure</b>	1000 psig
<b>standard maximum temperature</b>	176°F (80°C)
<b>high temperature construction</b>	N/A
<b>minimum temperature</b>	0°F (-18°C)
<b>calibration accuracy*</b>	±10% of full scale ascending after rap at room temperature <i>*Calibration accuracy is compensated for temperature effects between 0°F and 176°F.      *Descending calibration available upon request.</i>
<b>repeatability</b>	±2% of full scale
<b>transmitter enclosure</b>	weatherproof
<b>certification</b>	None

### Standard configuration options, (with –T3 or –T4 transmitter)

configuration	unless otherwise specified	standard options available
<b>porting size</b>	1/8" NPT	N/A
<b>porting orientation</b>	(must be specified)	in-line, back, or bottom
<b>direction of pressure</b>	left to right	N/A
<b>calibration medium</b>	air	N/A
<b>electronic outputs</b>	(must be specified)	analog outputs: 4-20 mA (2 wire) –T3 0-5 VDC (3 wire) –T4
<b>supply voltage</b>	9-28 VDC (reverse polarity protected)	
<b>electrical connection</b>	EN 175301-803 (DIN 43650) Form "C" (8 mm), 3-pin appliance connector. Mating connector included.	
<b>connector pin-out</b>	1: + (EXC) 2: - 3: 0-5 VDC	
<b>primary wetted parts</b>	aluminum	N/A
<b>secondary wetted parts</b>	range spring: 302SS magnet: ceramic	N/A
<b>static seals</b>	buna-N	Viton, fluorosilicone, EPDM
<b>diaphragm</b>	buna-N	Viton, fluorosilicone, EPDM
<b>dial sizes</b>	1"	N/A
<b>lens</b>	molded plastic	N/A
<b>dial markings</b>	colored arc, green to red (red 70% to 100% of dial arc)	Descending options available upon request

## Product specifications for model 1020

### Product Specifications, (with –T5 or –T6 transmitter)

sensor type	diaphragm
functions	transmitter
std. ranges	30" H <sub>2</sub> O, 60" H <sub>2</sub> O, 80" H <sub>2</sub> O, 110" H <sub>2</sub> O, 160" H <sub>2</sub> O
max. line pressure	1000 psig
std. max. temperature	80°C (176°F)
minimum temperature	-15°C (5°F)
calibration accuracy	±5% of range, descending after rap Accuracy is guaranteed over the rangeability of the instrument (top 90% of full scale)
repeatability	±2% of full scale
porting size	1/8" NPT
porting orientation	in-line
calibration medium	air
primary wetted parts	aluminum
secondary wetted parts	range spring: 302SS magnet: SmCo
transmitter enclosure	IP65
certification	none

### Standard configuration options, (with –T5 transmitter)

configuration	unless otherwise specified	standard options available
electronic outputs	0.5 to 4.5 VDC (3 wire)	
supply voltage	5 VDC ± 5%	
electrical connection	Molex receptacle 50-57-9404 (can be modified for 24 AWG flying leads) Molex mating connector 70545-0038 included. -Consult factory for alternative connectors	
power-up time	500 ms max.	
power consumption	250 mW max.	
connector pin-out	1: gnd (black) 2: out (white) 3: +5V input (red) 4: shield	
output load	resistive: 2 KOhm, minimum capacitive: 1000 pF, maximum	
static seals	buna-N	Viton
diaphragm	buna-N	Viton

### Standard configuration options, (with –T6 transmitter)

configuration	unless otherwise specified	standard options available
electronic outputs	4-20 mA (2 wire)	
supply voltage	15-28 VDC (24 VDC nominal)	
electrical connection	Molex receptacle 50-57-9404 (can be modified for 24 AWG flying leads) Molex mating connector 70545-0038 included. -Consult factory for alternative connectors	
power-up time	500 ms max.	
loop resistance	800 ohms max., 250 ohms (typ.) at 24 VDC, 150 ohms min.	
connector pin-out	1: return (black) 2: N/C (white) 3: +24 VDC in (red) 4: shield	
static seals	buna-N	Viton
diaphragm	buna-N	Viton