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**Product specifications for model 2323**


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**Product Specifications (switch, relay)**

|                                      |   |
|--------------------------------------|---|
| <b>sensor type</b>                   | variable-area   |
| <b>functions</b>                     | <b>Gauge/Switch , Switch</b>  |
| <b>min. range</b>                    | 0-1 GPM water, 4-30 SCFM compressed air (at 100 PSIG, 70°F)   |
| <b>max. range</b>                    | 0-10 GPM water, 10-100 SCFM compressed air (at 100 PSIG, 70°F)  |
| <b>max. line pressure</b>            | 5000 psig   |
| <b>min. burst pressure</b>           | 13000 psig  |
| <b>standard maximum temperature</b>  | gauge/switch: 176°F standard, 150°F (plastic lens)<br>switch: 176°F standard, 140°F relay   |
| <b>high temperature 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 (for standard water & standard hydraulic oil) ±5% (for std. compressed air calibration)<br><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/relay</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/rating</b>          | CSA Class I, Div. 2, Groups A, B, C & D;<br>Class II, Div. 2, Groups F & G (File 152872)<br>NEMA 4X, IP65 <i>*Consult factory for CE equivalent.</i>  |

**Standard configuration options (switch, relay)**

| <b>configuration</b>                 | <b>unless otherwise specified</b>   | <b>standard options available</b>   |
|--------------------------------------|---|---|
| <b>porting size</b>                  | 1/2" NPT  | N/A   |
| <b>porting orientation</b>           | in-line   | N/A   |
| <b>direction of flow</b>             | left to right   | right to left (reverse porting), vertical flow up, vertical flow down   |
| <b>calibration medium</b>            | (must be specified)<br><br>(Oil not available for EPDM units)                 | water (S.G.=1, Vis.=1 CS)<br>hydraulic oil (S.G.=.86, Vis.=78 CS)<br>compressed air (100 PSIG, 70°F)  |
| <b>switches</b>                      | (must be specified)   | -A SPST N/O (120VAC, 0.7A, 70VA; 200VDC, 1.0A, 50W)<br>-B SPST N/C (120VAC, 0.25A, 5VA; 175VDC, 0.25A, 5W)<br>-C SPDT (120VAC, 0.25A, 5VA; 175VDC, 0.25A, 5W)<br>-R2 DPDT relay (contacts: 120VAC, 28VDC, 10A<br>coil: 120VAC or 24VDC) |
| <b>switch setting</b>                | set at top of range ascending   | other set points within adjustability<br>ascending or descending  |
| <b>primary wetted parts</b>          | (must be specified)   | aluminum, 316SS, naval brass  |
| <b>secondary wetted parts</b>        | range spring: 302SS<br>magnet: Teflon-coated ceramic<br>metering cone: Delrin | Teflon-coated spring,<br>Teflon metering cone   |
| <b>static seals</b>                  | buna-N  | Viton, Teflon, neoprene, EPDM, fluorosilicone   |
| <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 (c-clamp not available)<br>"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 2323

### Product Specifications (transmitter)

|                                     |   |
|-------------------------------------|---|
| <b>sensor type</b>                  | variable-area   |
| <b>functions</b>                    | <b>Gauge/Transmitter, Transmitter (Loop powered)</b>  |
| <b>min. range</b>                   | 0-1 GPM water, 4-30 SCFM compressed air (at 100 PSIG, 70°F)   |
| <b>max. range</b>                   | 0-10 GPM water, 10-100 SCFM compressed air (at 100 PSIG, 70°F)  |
| <b>max. line pressure</b>           | 5000 psig   |
| <b>min. burst pressure</b>          | 13000 psig  |
| <b>standard maximum temperature</b> | gauge/transmitter: 200°F (glass lens), 150°F (plastic lens)<br>transmitter: 200°F   |
| <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<br><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;<br>Class II, Div. 2, Groups F & G (File 152872)<br>NEMA 4X, IP65 *Consult factory for CE equivalent.           |

### Standard configuration options (transmitter)

| configuration                       | unless otherwise specified  | standard options available   |
|-------------------------------------|---|--|
| <b>porting size</b>                 | 1/2" NPT  | N/A  |
| <b>porting orientation</b>          | in-line   | N/A  |
| <b>direction of flow</b>            | left to right   | right to left (reverse porting), vertical flow up, vertical flow down                            |
| <b>calibration medium</b>           | (must be specified)<br>(oil N/A for EPDM untis)                               | water (SG=1, VIS=1 CS)<br>hydraulic oil (SG=.86 VIS=78 CS)<br>compressed air (100 PSIG, 70°F)    |
| <b>electronic outputs</b>           | analog outputs: 4-20 mA (2 wire)<br>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 $V_s$ )                 |  |
| <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>         | (must be specified)   | aluminum, 316SS, naval brass   |
| <b>secondary wetted parts</b>       | range spring: 302SS<br>magnet: Teflon-coated ceramic<br>metering cone: Delrin | Teflon-coated spring, Teflon metering cone   |
| <b>static seals</b>                 | buna-N  | Viton, Teflon, neoprene, EPDM, fluorosilicone  |
| <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> )<br>"F" Flanged Case (w/holes for panel mounting) |
| <b>starting mark on dial</b>        | approximately 10% of full scale   | N/A  |