

# Watson-Marlow 530, 630, 730 EtherNet/IP™ and PROFINET® pump compatible sensor list



The 530, 630 and 730 En/EnN/EnF/Pn/PnN/PnF model peristaltic pumps are compatible with external sensor inputs.

These pump models require the sensors to provide a 4-20mA signal. Most sensor models listed here require an additional sensor interface box between the pump and the sensor to provide a 4-20mA input. Please contact the sensor suppliers for advice on the options available for this.

## Sensor Reading Accuracy

The accuracy of the sensor measurement is the responsibility of the sensor manufacturer and is dependent on many variables including, for example, tube material, temperature (environment/media), media type and pH. Please contact the sensor supplier for details.

The peristaltic pump reading accuracy and signal resolution is entirely dependent on the 4-20mA signal received.

The nature of peristaltic positive displacement pump operation means that there are likely to be significant fluctuations in system flow and pressure over time. This is reflected in the pump readings and any alarm and warning set-points used will need to take this into consideration.

## 1. PendoTECH® PressureMAT®

| Model    | Additional variants | Tube size (bore) | Tube size (Wall) | Max range     | Max of calibrated range | Output  | Selectable software profile |
|----------|---------------------|------------------|------------------|---------------|-------------------------|---------|-----------------------------|
| PMAT-S   | PRESS_N_025         | 1/4 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
|          | PRESS_N_038         | 3/8 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
|          | PRESS_N_050         | 1/2 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
|          | PRESS_N_075         | 3/4 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
|          | PRESS_N_100         | 1 " Hose Barb    | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
| PMAT-SHR | PRESS_N_025         | 1/4 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
|          | PRESS_N_038         | 3/8 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
|          | PRESS_N_050         | 1/2 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
|          | PRESS_N_075         | 3/4 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
|          | PRESS_N_100         | 1 " Hose Barb    | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
| PMAT2    | PRESS_N_025         | 1/4 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
|          | PRESS_N_038         | 3/8 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
|          | PRESS_N_050         | 1/2 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
|          | PRESS_N_075         | 3/4 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
|          | PRESS_N_100         | 1 " Hose Barb    | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
| PMAT2HR  | PRESS_N_025         | 1/4 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
|          | PRESS_N_038         | 3/8 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
|          | PRESS_N_050         | 1/2 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
|          | PRESS_N_075         | 3/4 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
|          | PRESS_N_100         | 1 " Hose Barb    | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
| PMAT3    | PRESS_N_025         | 1/4 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
|          | PRESS_N_038         | 3/8 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
|          | PRESS_N_050         | 1/2 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
|          | PRESS_N_075         | 3/4 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
|          | PRESS_N_100         | 1 " Hose Barb    | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
| PMAT4A   | PRESS_N_025         | 1/4 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
|          | PRESS_N_038         | 3/8 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
|          | PRESS_N_050         | 1/2 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
|          | PRESS_N_075         | 3/4 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
|          | PRESS_N_100         | 1 " Hose Barb    | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
| PMAT 2P  | PRESS_N_025         | 1/4 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
|          | PRESS_N_038         | 3/8 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
|          | PRESS_N_050         | 1/2 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
|          | PRESS_N_075         | 3/4 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |
|          | PRESS_N_100         | 1 " Hose Barb    | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                         |

| Model   | Additional variants | Tube size (bore) | Tube size (Wall) | Max range     | Max of calibrated range | Output  | Selectable software profile      |
|---------|---------------------|------------------|------------------|---------------|-------------------------|---------|----------------------------------|
| PMAT 2A | PRESS_N_025         | 1/4 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                              |
|         | PRESS_N_038         | 3/8 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                              |
|         | PRESS_N_050         | 1/2 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                              |
|         | PRESS_N_075         | 3/4 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                              |
|         | PRESS_N_100         | 1 " Hose Barb    | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                              |
| PMAT 2F | PRESS_N_025         | 1/4 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                              |
|         | PRESS_N_038         | 3/8 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                              |
|         | PRESS_N_050         | 1/2 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                              |
|         | PRESS_N_075         | 3/4 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                              |
|         | PRESS_N_100         | 1 " Hose Barb    | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                              |
| PMAT 3P | PRESS_N_025         | 1/4 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                              |
|         | PRESS_N_038         | 3/8 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                              |
|         | PRESS_N_050         | 1/2 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                              |
|         | PRESS_N_075         | 3/4 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                              |
|         | PRESS_N_100         | 1 " Hose Barb    | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                              |
| PMAT 3A | PRESS_N_025         | 1/4 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                              |
|         | PRESS_N_038         | 3/8 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                              |
|         | PRESS_N_050         | 1/2 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                              |
|         | PRESS_N_075         | 3/4 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                              |
|         | PRESS_N_100         | 1 " Hose Barb    | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                              |
| PMATF3P | PRESS_N_025         | 1/4 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                              |
|         | PRESS_N_038         | 3/8 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                              |
|         | PRESS_N_050         | 1/2 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                              |
|         | PRESS_N_075         | 3/4 " Hose Barb  | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                              |
|         | PRESS_N_100         | 1 " Hose Barb    | -                | -10 to 75 psi | -                       | 4-20 mA | Yes                              |
| PT-2    | -                   | -                | -                | 0-2 psi       | -                       | 4-20 mA | Use generic 4-20 mA setup option |
| PT-10   | -                   | -                | -                | 0-10 psi      | -                       | 4-20 mA |                                  |
| PT-30   | -                   | -                | -                | 0-30 psi      | -                       | 4-20 mA |                                  |
| PT-60   | -                   | -                | -                | 60 psi        | -                       | 4-20 mA |                                  |

## 2. Parker SciLog® SciPres® Sensors

| Model   | Additional variants                   | Tube size (bore) | Tube size (Wall) | Max range | Max of calibrated range | Output  | Selectable software profile |
|---------|---------------------------------------|------------------|------------------|-----------|-------------------------|---------|-----------------------------|
| SciPres | 080-699PSX (Luer)                     | 0.03-0.31 "      | -                | -         | -                       | -       | -                           |
| SciPres | 080-694PSX (3/8" Barb)                | 0.31-0.38 "      | -                | 0-60 psi  | -                       | 4-20 mA | Yes                         |
| SciPres | 080-695PSX (1/2" Barb)                | 0.5 "            | -                | 0-60 psi  | -                       | 4-20 mA | Yes                         |
| SciPres | 080-696PSX (3/4" Tri-Clover®)         | N/A              | -                | 0-60 psi  | -                       | 4-20 mA | Yes                         |
| SciPres | 080-697PSX (1" Tri-Clover® 'Ladish' ) | N/A              | -                | 0-60 psi  | -                       | 4-20 mA | Yes                         |

## 3. SONOTEC SONOFLOW®

SD Stainless steel version.

### Supplier Sensor Calibration

To use these sensors please have sensor manufacturer calibrate sensors to the 'Max Range' stipulated in the list below. If sensor is not calibrated to the range specified please use the 'Generic Sensor setup' to use this sensor.

Supplier calibration is important for single-use sensors that wrap around the tubing because the tube material properties influence the reading and need to be adjusted for. Suppliers need to be informed of the tube material and dimensions being used when the sensor order is placed.

Even after calibration, the sensor readings will never be an exact match to the pump flow rate as this is a calculated value based on typical drive, pumphead and tube properties.

| Model             | Additional variants | Tube size (bore) | Tube size (Wall) | Max range       | Max of calibrated range | Output  | Selectable software profile |
|-------------------|---------------------|------------------|------------------|-----------------|-------------------------|---------|-----------------------------|
| CO.55/060SD V2.0  | -                   | 1/8 " (3.2 mm)   | 1/16 " (1.6 mm)  | 0-6000 ml/min   | 390 ml/min              | 4-20 mA | Yes                         |
| CO.55/080SD V2.0  | -                   | 1/4 " (6.4 mm)   | 1/16 " (1.6 mm)  | 0-8000 ml/min   | 1500 ml/min             | 4-20 mA | Yes                         |
| CO.55/100SD V2.0  | -                   | 1/4 " (6.4 mm)   | 1/16 " (1.6 mm)  | 0-10000 ml/min  | 1500 ml/min             | 4-20 mA | Yes                         |
| CO.55/120SD V2.0  | -                   | 3/8 " (9.6 mm)   | 3/32 " (2.4 mm)  | 0-12000 ml/min  | 3500 ml/min             | 4-20 mA | Yes                         |
| CO.55/140SD V2.0  | -                   | 3/8 " (9.6 mm)   | 1/8 " (3.2 mm)   | 0-14000 ml/min  | 7.2 l/min               | 4-20 mA | Yes                         |
| CO.55/160SD V2.0  | -                   | 1/2 " (12.7 mm)  | 1/8 " (3.2 mm)   | 0-18000 ml/min  | 11 l/min                | 4-20 mA | Yes                         |
| CO.55/190SDH V2.0 | -                   | 5/8 " (15.9 mm)  | 1/8 " (3.2 mm)   | 0-4000 ml/min   | 15 l/min                | 4-20 mA | Yes                         |
| CO.55/230SDH V2.0 | -                   | 5/8 " (15.9 mm)  | 3/16 " (4.8 mm)  | 0-50000 ml/min  | 30 l/min                | 4-20 mA | Yes                         |
| CO.55/260SDH V2.0 | -                   | 3/4 " (19.0 mm)  | 3/16 " (4.8 mm)  | 0-70000 ml/min  | 41.66 l/min             | 4-20 mA | Yes                         |
| CO.55/300SDH V2.0 | -                   | 3/4 " (19.0 mm)  | 1/4 " (6.4 mm)   | 0-100000 ml/min | -                       | 4-20 mA | Yes                         |
| CO.55/340SDH V2.0 | -                   | 1 " (25.4 mm)    | 3/16 " (4.8 mm)  | 0-140000 ml/min | 55 l/min                | 4-20 mA | Yes                         |
| CO.55/035 V2.0    | -                   | 1/32 " (0.8 mm)  | 1/16 " (1.6 mm)  | 0-3000 ml/min   | 8.8 ml/min              | 4-20 mA | Yes                         |
| CO.55/044 V2.0    | -                   | 1/16 " (1.6 mm)  | 1/16 " (1.6 mm)  | 0-5000 ml/min   | -                       | 4-20 mA | Yes                         |
| CO.55/060 V2.0    | -                   | 1/8 " (3.2 mm)   | 1/16 " (1.6 mm)  | 0-6000 ml/min   | 390 ml/min              | 4-20 mA | Yes                         |
| CO.55/080 V2.0    | -                   | 1/4 " (6.4 mm)   | 1/16 " (1.6 mm)  | 0-8000 ml/min   | 1500 ml/min             | 4-20 mA | Yes                         |
| CO.55/100 V2.0    | -                   | 1/4 " (6.4 mm)   | 3/32 " (2.4 mm)  | 0-10000 ml/min  | 1500 ml/min             | 4-20 mA | Yes                         |
| CO.55/120 V2.0    | -                   | 3/8 " (9.6 mm)   | 3/32 " (2.4 mm)  | 0-12000 ml/min  | 3500 ml/min             | 4-20 mA | Yes                         |
| CO.55/140 V2.0    | -                   | 3/8 " (9.6 mm)   | 1/8 " (3.2 mm)   | 0-14000 ml/min  | 7.2 l/min               | 4-20 mA | Yes                         |
| CO.55/160 V2.0    | -                   | 1/2 " (12.7 mm)  | 1/8 " (3.2 mm)   | 0-18000 ml/min  | 11 l/min                | 4-20 mA | Yes                         |
| CO.55/190 V2.0    | -                   | 5/8 " (15.6 mm)  | 1/8 " (3.2 mm)   | 0-4000 ml/min   | 15 l/min                | 4-20 mA | Yes                         |
| CO.55/230H V2.0   | -                   | 5/8 " (15.6 mm)  | 3/16 " (4.8 mm)  | 0-50000 ml/min  | 30 l/min                | 4-20 mA | Yes                         |
| CO.55/260H V2.0   | -                   | 3/4 " (19.0 mm)  | 3/16 " (4.8 mm)  | 0-70000 ml/min  | 41.66 l/min             | 4-20 mA | Yes                         |
| CO.55/340H V2.0   | -                   | 1 " (25.4 mm)    | 3/16 " (4.8 mm)  | 0-140000 ml/min | 55 l/min                | 4-20 mA | Yes                         |

#### 4. KROHNE FLEXMAG™ 4050 C

| Model    | Additional variants | Tube size (bore) | Tube size (Wall) | Max range       | Max of calibrated range | Output                 | Selectable software profile |
|----------|---------------------|------------------|------------------|-----------------|-------------------------|------------------------|-----------------------------|
| ID 1/4 " | -                   | 1/4 "            | -                | 0.03 - 3 l/min  | -                       | 0-1000 Hz <sup>1</sup> | No                          |
| ID 3/8 " | -                   | 3/8 "            | -                | 0.07 - 14 l/min | -                       | 0-1000 Hz <sup>1</sup> | Yes                         |
| ID 1/2 " | -                   | 1/2 "            | -                | 0.1 - 20 l/min  | -                       | 0-1000 Hz <sup>1</sup> | Yes                         |
| ID 3/4 " | -                   | 3/4 "            | -                | 0.3 - 62 l/min  | -                       | 0-1000 Hz <sup>1</sup> | Yes                         |
| ID 1 "   | -                   | 1 "              | -                | 0.5 - 75 l/min  | -                       | 0-1000 Hz <sup>1</sup> | Yes                         |

1. Frequency output (recommended) is compatible with standard 530/630/730 xxN model cased pumps. The 4-20mA option is available on request (special 530/630/730 xxF module required).

#### 5. em-tec BioProTT™

##### Supplier Sensor Calibration

To use these sensors please have sensor manufacturer calibrate sensors to the 'Max Range' stipulated in the list below. If sensor is not calibrated to the range specified please use the 'Generic Sensor setup' to use this sensor.

Supplier calibration is important for single-use sensors that wrap around the tubing because the tube material properties influence the reading and need to be adjusted for. Suppliers need to be informed of the tube material and dimensions being used when the sensor order is placed.

Even after calibration, the sensor readings will never be an exact match to the pump flow rate as this is a calculated value based on typical drive, pumphead and tube properties.

| Model <sup>3</sup> | Additional variants | Tube size (bore) | Tube size (Wall) | Max range   | Max of calibrated range | Output  | Selectable software profile |
|--------------------|---------------------|------------------|------------------|-------------|-------------------------|---------|-----------------------------|
| BCT 1/8 x 1/16 "   | -                   | 1/8 " (3.2 mm)   | 1/16 " (1.6 mm)  | 0-4 l/min   | 390 ml/min              | 4-20 mA | Yes <sup>2</sup>            |
| BCT 3/16 x 1/16 "  | -                   | 3/16 " (4.8 mm)  | 1/16 " (1.6 mm)  | 0-6 l/min   | 870 ml/min              | 4-20 mA | Yes <sup>2</sup>            |
| BCT 1/4 x 1/16 "   | -                   | 1/4 " (6.4 mm)   | 1/16 " (1.6 mm)  | 0-8 l/min   | 1500 ml/min             | 4-20 mA | Yes <sup>2</sup>            |
| BCT 1/4 x 3/32 "   | -                   | 1/4 " (6.4 mm)   | 3/32 " (2.4 mm)  | 0-8 l/min   | 1500 ml/min             | 4-20 mA | Yes <sup>2</sup>            |
| BCT 3/8 x 1/16 "   | -                   | 3/8 " (9.6 mm)   | 1/16 " (1.6 mm)  | 0-10 l/min  | 3500 ml/min             | 4-20 mA | No                          |
| BCT 3/8 x 3/32 "   | -                   | 3/8 " (9.6 mm)   | 3/32 " (2.4 mm)  | 0-10 l/min  | 3500 ml/min             | 4-20 mA | Yes <sup>2</sup>            |
| BCT 3/8 x 1/8 "    | -                   | 3/8 " (9.6 mm)   | 1/8 " (3.2 mm)   | 0-10 l/min  | 7.2 l/min               | 4-20 mA | Yes <sup>2</sup>            |
| BCT 1/2 x 3/32 "   | -                   | 1/2 " (12.7 mm)  | 3/32 " (2.4 mm)  | 0-20 l/min  | 11 l/min                | 4-20 mA | No                          |
| BCT 1/2 x 1/8 "    | -                   | 1/2 " (12.7 mm)  | 1/8 " (3.2 mm)   | 0-20 l/min  | 11 l/min                | 4-20 mA | Yes <sup>2</sup>            |
| BCT 1/2 x 3/16 "   | -                   | 1/2 " (12.7 mm)  | 3/16 " (4.8 mm)  | 0-20 l/min  | 11 l/min                | 4-20 mA | Yes <sup>2</sup>            |
| BCT 3/4 x 1/8 "    | -                   | 3/4 " (19.0 mm)  | 1/8 " (3.2 mm)   | 0-50 l/min  | 41.66 l/min             | 4-20 mA | Yes <sup>2</sup>            |
| BCT 3/4 x 3/16 "   | -                   | 3/4 " (19.0 mm)  | 3/16 " (4.8 mm)  | 0-50 l/min  | 41.66 l/min             | 4-20 mA | Yes <sup>2</sup>            |
| BCT 1 x 1/8 "      | -                   | 1 " (25.4 mm)    | 1/8 " (3.2 mm)   | 0-100 l/min | 55 l/min                | 4-20 mA | No                          |
| BCT 1-1/4 x 3/16 " | -                   | 1 " (25.4 mm)    | 3/16 " (4.8 mm)  | 0-100 l/min | 55 l/min                | 4-20 mA | No                          |

2. Sensor Pin 2 (white) to Adapter 24V, Sensor Pin 4 (Black) to Adapter AN1+, Pin1 to Pin2, Pin3 to 0V, Pin 4 to AN1+

3. BioProTT Flowtrack with 4-20mA sensor output required (several models available - check with supplier).

## 6. ifm Magnetic-inductive flow meter

| Model | Additional variants           | Tube size (bore) | Tube size (Wall) | Max range     | Max of calibrated range | Output  | Selectable software profile |
|-------|-------------------------------|------------------|------------------|---------------|-------------------------|---------|-----------------------------|
| SMR   | SM4000<br>SMR14DXFRKG/US-100  | 1/4 " (6.4 mm)   | -                | 0.005-3 l/min | -                       | 4-20 mA | Yes <sup>4,5</sup>          |
|       | SM6000<br>SMR12GGXFRKG/US-100 | 1/2 " (12.7 mm)  | -                | 0.1-25 l/min  | -                       | 4-20 mA | Yes <sup>4,5</sup>          |
|       | SM7000<br>SMR34GGXFRKG/US-100 | 3/4 " (19.0 mm)  | -                | 0.2-50 l/min  | -                       | 4-20 mA | Yes <sup>4,5</sup>          |
|       | SM8000<br>SMR11GGXFRKG/US-100 | 1 " (25.4 mm)    | -                | 0.2-100 l/min | -                       | 4-20 mA | Yes <sup>4,5</sup>          |

4. Sensor Pin 1 (Brown) to Adapter 24 V, Sensor Pin 2 (White) to Adapter AN1+, Sensor Pin 3 (Blue) to Adapter 0 V, Sensor Pin 4 (Black) to Adapter FREQ

5. Single sensor only allowed (12...30 V) (80 mA)

## 7. BALLUFF Pressure transducer with display

| Model   | Additional variants                     | Tube size (bore)                 | Tube size (Wall) | Max range                    | Max of calibrated range | Output  | Selectable software profile |
|---------|---|----------------------------------|------------------|------------------------------|-------------------------|---------|-----------------------------|
| BALLUFF | BSP00Y4<br>BSP B010-EV009-P00S2B-S4     | G 1/4" (DIN 3852)                | -                | 0-10 bar<br>(0-145 psi)      | -                       | 4-20 mA | Yes <sup>6,7</sup>          |
|         | BSP00YN<br>BSP M050-EV009-P00S2B-S4     | G 1/4" (DIN 3852)                | -                | 0-0.05 bar<br>(0-0.725 psi)  | -                       | 4-20 mA | Yes <sup>6,7</sup>          |
|         | BSP00YR<br>BSP V002-EV009-P00S2B-S4     | G 1/4" (DIN 3852)                | -                | -1-2 bar<br>(-14.5-29 psi)   | -                       | 4-20 mA | Yes <sup>6,7</sup>          |
|         | BSP00YU<br>BSP V010-EV009-P00S2B-S4-003 | G 1/4" (DIN 3852)                | -                | -1-10 bar<br>(-14.5-145 psi) | -                       | 4-20 mA | Yes <sup>6,7</sup>          |
|         | BSP00YW<br>BSP V010-EV009-P00S2B-S4-Z03 | G 1/4" (DIN 3852)                | -                | -1-10 bar<br>(-14.5-145 psi) | -                       | 4-20 mA | Yes <sup>6,7</sup>          |
|         | BSP00Z3<br>BSP V010-GV009-P00S2B-S4     | 1/4" NPT                         | -                | -1-10 bar<br>(-14.5-145 psi) | -                       | 4-20 mA | Yes <sup>6,7</sup>          |
|         | BSP00Y2<br>BSP B002-EV009-P00S2B-S4     | G 1/4" (DIN 3852)                | -                | 0-2 bar<br>(0-29 psi)        | -                       | 4-20 mA | Yes <sup>6,7</sup>          |
|         | BSP00Y3<br>BSP B005-EV009-P00S2B-S4     | G 1/4" (DIN 3852)                | -                | 0-5 bar<br>(0-72.5 psi)      | -                       | 4-20 mA | Yes <sup>6,7</sup>          |
|         | BSP00Y5<br>BSP B010-EV009-P00S2B-S4-Z03 | G 1/4" (DIN 3852)                | -                | 0-10 bar<br>(0-145 psi)      | -                       | 4-20 mA | Yes <sup>6,7</sup>          |
|         | BSP00YP<br>BSP M050-EV009-P00S2B-S4-003 | G 1/4" (DIN 3852)                | -                | 0-0.05 bar<br>(0-0.725 psi)  | -                       | 4-20 mA | Yes <sup>6,7</sup>          |
|         | BSP00YT<br>BSP V010-EV009-P00S2B-S4     | G 1/4" (DIN 3852)                | -                | -1-10 bar<br>(-14.5-145 psi) | -                       | 4-20 mA | Yes <sup>6,7</sup>          |
|         | BSP00YZ<br>BSP B010-HV009-P00S2B-S4-001 | G 1/2" (DIN 3852)                | -                | 0-10 bar<br>(0-145 psi)      | -                       | 4-20 mA | Yes <sup>6,7</sup>          |
|         | BSP00Z4<br>BSP B002-IV009-P00S2B-S4     | G 1/2" (DIN 3852)<br>Front-Flush | -                | 0-2 bar<br>(0-29 psi)        | -                       | 4-20 mA | Yes <sup>6,7</sup>          |
|         | BSP00ZU<br>BSP B002-IV010-P00S2B-S4     | G 1/2" (DIN 3852)<br>Front-Flush | -                | 0-2 bar<br>(0-29 psi)        | -                       | 4-20 mA | Yes <sup>6,7</sup>          |
|         | BSP00Z5<br>BSP B005-IV009-P00S2B-S4     | G 1/2" (DIN 3852)<br>Front-Flush | -                | 0-5 bar<br>(0-72.5 psi)      | -                       | 4-20 mA | Yes <sup>6,7</sup>          |
|         | BSP00ZW<br>BSP B005-IV010-P00S2B-S4     | G 1/2" (DIN 3852)<br>Front-Flush | -                | 0-5 bar<br>(0-72.5 psi)      | -                       | 4-20 mA | Yes <sup>6,7</sup>          |
|         | BSP00ZJ<br>BSP V003-IV009-P00S2B-S4     | G 1/2" (DIN 3852)<br>Front-Flush | -                | -1-3 bar<br>(-14.5-43.5 psi) | -                       | 4-20 mA | Yes <sup>6,7</sup>          |
|         | BSP00Z6<br>BSP B010-IV009-P00S2B-S4     | G 1/2" (DIN 3852)<br>Front-Flush | -                | 0-10 bar<br>(0-145 psi)      | -                       | 4-20 mA | Yes <sup>6,7</sup>          |
|         | BSP00ZH<br>BSP V002-IV009-P00S2B-S4     | G 1/2" (DIN 3852)<br>Front-Flush | -                | -1-2 bar<br>(-14.5-29 psi)   | -                       | 4-20 mA | Yes <sup>6,7</sup>          |

| Model | Additional variants                 | Tube size (bore)                 | Tube size (Wall) | Max range                    | Max of calibrated range | Output  | Selectable software profile |
|-------|-------------------------------------|----------------------------------|------------------|------------------------------|-------------------------|---------|-----------------------------|
|       | BSP00ZY<br>BSP B010-IV010-P00S2B-S4 | G 1/2" (DIN 3852)<br>Front-Flush | -                | 0-10 bar<br>(0-145 psi)      | -                       | 4-20 mA | Yes <sup>6,7</sup>          |
|       | BSP00ZK<br>BSP V010-IV009-P00S2B-S4 | G 1/2" (DIN 3852)<br>Front-Flush | -                | -1-10 bar<br>(-14.5-145 psi) | -                       | 4-20 mA | Yes <sup>6,7</sup>          |

6. Sensor Pin 1 (Brown) to Adapter 24V, Sensor Pin 2 (White) to Adapter AN1+, Sensor Pin 3 (Blue) to Adapter 0V, Sensor Pin 4 (Black) to Adapter FREQ

7. Single sensor only Allowed (18...30V) (50mA)

#### Sensor supplier version control

This list of sensor models verifies compatibility of these products as of May 2020. Any subsequent supplier changes to 4-20mA output scaling could affect compatibility. If in doubt check with the sensor supplier.

#### Disclaimer

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