

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 ¹	No
ID 3/8 "	-	3/8 "	-	0.07 - 14 l/min	-	0-1000 Hz ¹	Yes
ID 1/2 "	-	1/2 "	-	0.1 - 20 l/min	-	0-1000 Hz ¹	Yes
ID 3/4 "	-	3/4 "	-	0.3 - 62 l/min	-	0-1000 Hz ¹	Yes
ID 1 "	-	1 "	-	0.5 - 75 l/min	-	0-1000 Hz ¹	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 ³	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 ²
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 ²
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 ²
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 ²
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 ²
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 ²
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 ²
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 ²
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 ²
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 ²
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 SMR14DXFRKG/US-100	1/4 " (6.4 mm)	-	0.005-3 l/min	-	4-20 mA	Yes ^{4,5}
	SM6000 SMR12GGXFRKG/US-100	1/2 " (12.7 mm)	-	0.1-25 l/min	-	4-20 mA	Yes ^{4,5}
	SM7000 SMR34GGXFRKG/US-100	3/4 " (19.0 mm)	-	0.2-50 l/min	-	4-20 mA	Yes ^{4,5}
	SM8000 SMR11GGXFRKG/US-100	1 " (25.4 mm)	-	0.2-100 l/min	-	4-20 mA	Yes ^{4,5}

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 BSP B010-EV009-P00S2B-S4	G 1/4" (DIN 3852)	-	0-10 bar (0-145 psi)	-	4-20 mA	Yes ^{6,7}
	BSP00YN BSP M050-EV009-P00S2B-S4	G 1/4" (DIN 3852)	-	0-0.05 bar (0-0.725 psi)	-	4-20 mA	Yes ^{6,7}
	BSP00YR BSP V002-EV009-P00S2B-S4	G 1/4" (DIN 3852)	-	-1-2 bar (-14.5-29 psi)	-	4-20 mA	Yes ^{6,7}
	BSP00YU BSP V010-EV009-P00S2B-S4-003	G 1/4" (DIN 3852)	-	-1-10 bar (-14.5-145 psi)	-	4-20 mA	Yes ^{6,7}
	BSP00YW BSP V010-EV009-P00S2B-S4-Z03	G 1/4" (DIN 3852)	-	-1-10 bar (-14.5-145 psi)	-	4-20 mA	Yes ^{6,7}
	BSP00Z3 BSP V010-GV009-P00S2B-S4	1/4" NPT	-	-1-10 bar (-14.5-145 psi)	-	4-20 mA	Yes ^{6,7}
	BSP00Y2 BSP B002-EV009-P00S2B-S4	G 1/4" (DIN 3852)	-	0-2 bar (0-29 psi)	-	4-20 mA	Yes ^{6,7}
	BSP00Y3 BSP B005-EV009-P00S2B-S4	G 1/4" (DIN 3852)	-	0-5 bar (0-72.5 psi)	-	4-20 mA	Yes ^{6,7}
	BSP00Y5 BSP B010-EV009-P00S2B-S4-Z03	G 1/4" (DIN 3852)	-	0-10 bar (0-145 psi)	-	4-20 mA	Yes ^{6,7}
	BSP00YP BSP M050-EV009-P00S2B-S4-003	G 1/4" (DIN 3852)	-	0-0.05 bar (0-0.725 psi)	-	4-20 mA	Yes ^{6,7}
	BSP00YT BSP V010-EV009-P00S2B-S4	G 1/4" (DIN 3852)	-	-1-10 bar (-14.5-145 psi)	-	4-20 mA	Yes ^{6,7}
	BSP00YZ BSP B010-HV009-P00S2B-S4-001	G 1/2" (DIN 3852)	-	0-10 bar (0-145 psi)	-	4-20 mA	Yes ^{6,7}
	BSP00Z4 BSP B002-IV009-P00S2B-S4	G 1/2" (DIN 3852) Front-Flush	-	0-2 bar (0-29 psi)	-	4-20 mA	Yes ^{6,7}
	BSP00ZU BSP B002-IV010-P00S2B-S4	G 1/2" (DIN 3852) Front-Flush	-	0-2 bar (0-29 psi)	-	4-20 mA	Yes ^{6,7}
	BSP00Z5 BSP B005-IV009-P00S2B-S4	G 1/2" (DIN 3852) Front-Flush	-	0-5 bar (0-72.5 psi)	-	4-20 mA	Yes ^{6,7}
	BSP00ZW BSP B005-IV010-P00S2B-S4	G 1/2" (DIN 3852) Front-Flush	-	0-5 bar (0-72.5 psi)	-	4-20 mA	Yes ^{6,7}
	BSP00ZJ BSP V003-IV009-P00S2B-S4	G 1/2" (DIN 3852) Front-Flush	-	-1-3 bar (-14.5-43.5 psi)	-	4-20 mA	Yes ^{6,7}
	BSP00Z6 BSP B010-IV009-P00S2B-S4	G 1/2" (DIN 3852) Front-Flush	-	0-10 bar (0-145 psi)	-	4-20 mA	Yes ^{6,7}
	BSP00ZH BSP V002-IV009-P00S2B-S4	G 1/2" (DIN 3852) Front-Flush	-	-1-2 bar (-14.5-29 psi)	-	4-20 mA	Yes ^{6,7}

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

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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