

dBi MODBUS INTELLIGENT TRANSDUCERS

Technical Specifications:

The dBi-Modbus series of transducers are the ultimate low power devices that benefit from Modbus communication.



PHYSICAL: TRANSDUCER SPECIFIC

	dBi-M3	dBi-M6	dBi-M10	dBi-M15
Sensor Body Dimensions:	77 mm D x 134 mm H (3 in x 5.3 in)	86 mm D x 121 mm H (3.4 in x 4.8 in)	86 mm D x 121 mm H (3.4 in x 4.8 in)	86 mm D x 121 mm H (3.4 in x 4.8 in)
Weight:	1 kg (2.2 lb)	1.2 kg (2.7 lb)	1.3 kg (2.9 lb)	1.4 kg (3.1 lb)
Measurement Range:	125 mm to 3 m (4.9 in to 9.8 ft)	300 mm to 6 m (11.8 in to 19.7 ft)	300 mm to 10.1 m (11.8 in to 32.8 ft)	500 mm to 15 m (19.7 in to 49.2 ft)
Beam Angle:	<10°	<10°	<10°	<8°
Accuracy	2 mm (0.08 in)	4 mm (0.2 in)	3 mm (0.1 in) up to 6 m (19.7 ft) range 6 mm (0.2 in) over 6 m (19.7 ft) range	5 mm (0.2 in) up to 10 m (32.8 ft) 10 mm (0.4 in) over 10 m (32.8 ft) range
Resolution:	1 mm (0.04 in)	2 mm (0.08 in)	3 mm (0.1 in)	5 mm (0.2 in)

PHYSICAL: ALL TRANSDUCERS

Sensor Body Material:	Valox 357 PBT
Cable Lengths:	Standard: 5 m, 10 m, 20 m, or 30 m (16.4 ft, 32.8 ft, 65.6 ft, or 98.4 ft) Optional up to 150 m (492.1 ft) maximum (increments of 10 m (32.8 ft) only)
Mounting Connection:	1" BSP or NPT

ENVIRONMENTAL

Enclosure Protection:	IP68 / NEMA 6P
Max. and Min. Temperature (Electronics):	-40 °C to +80 °C (-40 °F to +176 °F), options for front thread and flange mounting

APPROVALS

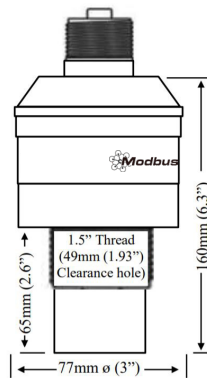
CE Approval:	Listed in the Certificate of Conformity within the manual
IECEX, UKEx & ATEX Approvals:	Standard: Zone 0: II 1 G Ex ia IIC T4 Ga, Zone 20: II 1 D Ex ia IIIC T130°C Da, Tamb = -40 °C to +80 °C. Also suitable for zones 1, 2, 21 and 22.

PERFORMANCE

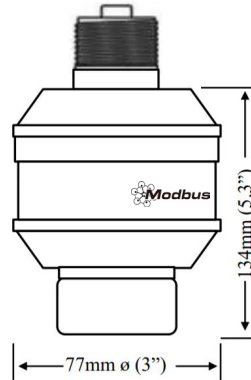
Input Voltage Range:	5-15 V DC
Output:	Modbus RTU via RS-485
Current Consumption:	Average 14 mA, 0.006 mAh per measurement.
Boot Time:	1 second for the first measurement
Temp. Compensation:	Automatic, internal temperature sensor, ± 0.5 °C/°F
Communications Protocol:	Modbus RTU

TRANSDUCER OPTIONS

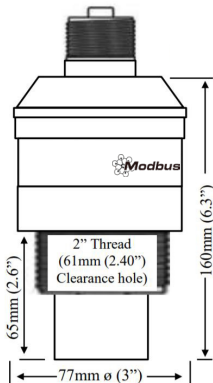
	dBi-M3	dBi-M6	dBi-M10	dBi-M15
PVDF:		✓	✓	
Front Threaded / PVDF:	✓	✓	✓	
Submergence Shield:	✓	✓	✓	✓
Flanged DIN / ANSI:		✓	✓	✓
Foam Face:			✓	✓
Sanitary Flange	✓	✓	✓	
Intrinsically Safe of All the Above:	✓	✓	✓	✓



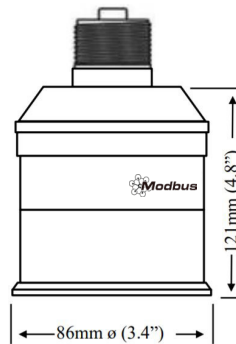
dBi-M3 & dBi-M6 Front Thread



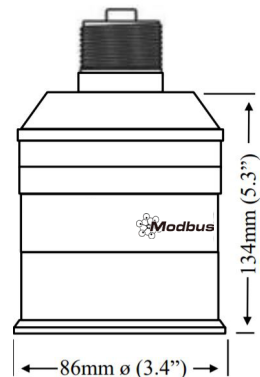
dBi-M3 Rear Thread



dBi-M10 Front Thread



dBi-M6 & dBi-M10 Rear Thread



dBi-M15 Rear Thread



INFO@PULSARMEASUREMENT.COM

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Registered Address: 1 Chamberlain Square CS, Birmingham B3 3AX
Registered No.: 3345604 England & Wales

Delivering the Measure of Possibility

United States
+1 888-473-9546

Asia
+60 102 591 332

Canada
+1 855-300-9151

Oceania
+61 428 692 274

United Kingdom
+44 (0) 1684 891371

pulsarmeasurement.com

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