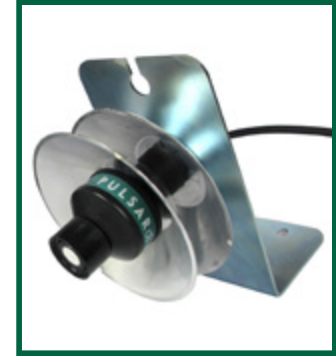


Specialist Flow Transducers

Non-Contacting Ultrasonic Transducers for Flow Applications

The dB3 with Double Sun Shields and dBMACH3 transducers have been designed specifically for open channel flow measurement. For the full range of transducers, please refer to the [ultrasonic transducer datasheet](#).



Technical Specification:

TRANSDUCER SPECIFIC:		
Model:	dBMACH3	dB3 with Double Sun Shields
Sensor body dimensions:	180D (sunshield) x 205Hmm (7.08 x 8.07in)	180D (sunshield) x 115Hmm (7.08 x 4.52in)
Sensor body weight:	Nominal 1.1kg (2.4lbs)	Nominal 1.1kg (2.4lbs)
Max. & min. temperature (electronics):	Standard: -30°C to +90°C (-22°F to +194°F) ATEX: -30°C to +75°C (-22°F to +167°F)	Standard: -40°C to +90°C (-40°F to +194°F) ATEX: -40°C to +75°C (-40°F to +167°F)
Measurement range:	0 - 2.425m (0 - 7.95ft)	0.125 - 3m (0.41 - 10ft)
Accuracy:	±1mm (0.039in)	0.25% or 6mm (0.24in) whichever is greater
Resolution:	±0.5mm (0.019in)	0.01% or 2mm (0.08in) whichever is greater
MCERTS certified:	Not applicable	Class 1 (0.193%) when used with FlowCERT Lite
BOTH TRANSDUCERS: PHYSICAL:		
Sensor body material:	Valox 357 U and syntactic foam face	
Cable lengths:	Standard = 5m, 10m, 20m or 30m (16.4ft, 32.8ft, 65.6ft or 98.4ft). Optional: up to 150m (492ft) maximum (increments of 10m / 32.8ft only)	
Maximum separation:	500m (1640ft)	
Mounting connection:	BSP or 1" NPT	
ENVIRONMENTAL:		
Enclosure protection:	IP68 / NEMA 6P	
APPROVALS:		
CE approval:	2014/30/EU - EMC & 2014/34/EU ATEX Directives. Standards applied: EN 60079-0:2012+A11:2013/ EN 60079-11:2012 / EN 60079-18:2009 / EN 60079-26:2007 / EN 61326-1:2013	
ATEX approval:	Standard ATEX EEx m II T6 or optional EEx ia IIC T6. FM/FMC approval.	
PERFORMANCE:		
Frequency:	125kHz	
Beam Angle:	<10°	

Pulsar Process Measurement Ltd. operates a policy of constant development and improvement and reserves the right to amend technical details as necessary.

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