

SPECIALIST FLOW TRANSDUCERS

Technical Specifications:

The dB3 with Double Sun Shields and dBMACH3 transducers have been designed specifically for open channel flow measurement.



PHYSICAL: MODEL OPTION SPECIFIC

Model Option:	dBMACH3	dB3 with Double Sun Shields
Sensor Body Dimensions	180 mm D (sunshield) x 205 mm H (7.08 in x 8.1 in)	180 mm D (sunshield) x 115 mm H (7.08 in x 4.5 in)
Weight	Nominal 1.1 kg (2.4 lb)	Nominal 1.1 kg (2.4 lb)
Max. and Min. Temperature (Electronics)	Standard: -40 °C to +90 °C (-40 °F to +194 °F) ATEX: -40 °C to +75 °C (-40 °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 mm to 2.4 m (0 in to 7.9 ft)	125 mm to 3 m (4.9 in to 9.8 ft)
Accuracy	±1 mm (0.039 in)	±3 mm (0.12 in)
Resolution	±0.5 mm (0.019 in)	0.01% or 2 mm (0.08 in) whichever is greater
MCERTS Certified	Not Applicable	Class 1 (0.107%) when used with Ultra 4, 0-3m range Class 1 (0.193%) when used with FlowCERT Lite, 0-3m range

PHYSICAL: BOTH TRANSDUCERS

Sensor Body Material	Valox 357 U and syntactic foam face
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 ft) maximum (increments of 10 m / 32.8 ft only)
Maximum Separation	500 m (1,640 ft)
Mounting Connection	1" BSP or 1" NPT

ENVIRONMENTAL

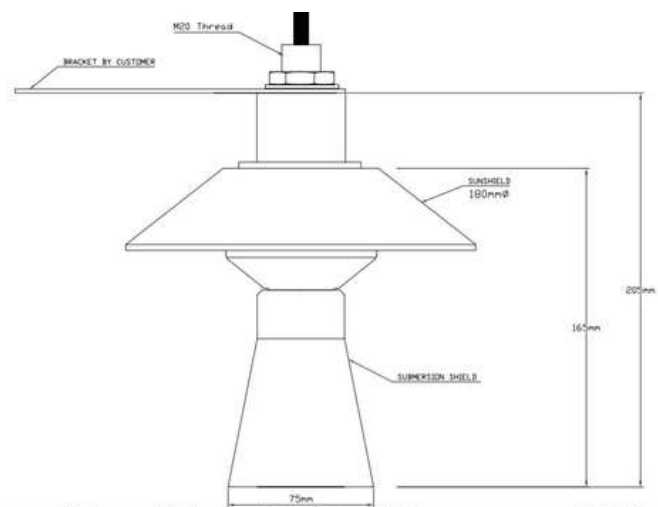
Enclosure Protection	IP68 / NEMA 6P
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APPROVALS

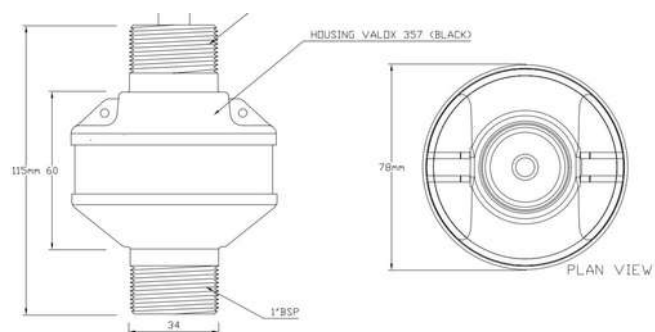
CE Approval	2014/30/EU - EMC & 2014/34/EU ATEX Directives. Standards applied: EN 60079-0:2012+A11:2013/ EN 60079-11:2012 / EN 60079-18:2009 / EN 60079-26:2007 / EN 61326-1:2013
ATEX Approval	Standard ATEX EEx m II T6 or optional EEx ia IIC T6. FM/FMC approval.

PERFORMANCE

Frequency	125kHz
Beam Angle	<10°
Effective Beam Angle (using DATEM)	3°



dBMACH3 Transducer Drawing



dB3 Transducer Drawing (not including Sun Shields)