pulsar MEASUREMENT

IMP+ I.S.

Technical Specifications:

IMP+ I.S. is a combined transducer and controller in one self-contained unit and is I.S. certified to ATEX EEx ia IIC T4 and IECEx. IMP+ I.S. benefits from a specially designed digital echo processing technique and is available in three versions, 3 m, 6 m, or 10 m (9.8 ft, 19.7 ft, or 32.8 ft) range. The full IMP range is available with the wetted parts in PVDF build alternative for corrosive or aggressive applications.

PHYSICAL

Controller Body Dimensions:	186 mm H x 133 mm D (5.2 in x 7.3 in)
Weight:	Nominal 1 kg (2.2 lb)
Cable Entry Detail:	2 off cable glands 4.5 mm to 10 mm (0.18 in to 0.4 in); *Torque to 2 NM*
Mounting:	1.5" BSP/NPT (IMP3 & IMP6), 2" BSP/NPT (IMP10)

ENVIRONMENTAL

IP Rating:	IP67
Temp. Range (Process):	-40 °C to +80 °C (-40° F to +176 °F)
Temp. Range (Ambient):	-20 °C to +65 °C (-4 °F to +149 °F)

IMP3

Beam Angle (-3dB Half Power):	<10° inclusive
Operating Frequency:	125 kHz
Measurement Range:	200 mm to 3 m (7.9 in to 9.8 ft)

IMP6

Beam Angle (-3dB Half Power):	<10° inclusive
Operating Frequency:	75 kHz
Measurement Range:	300 mm to 6 m (11.8 in to 19.7 ft)

IMP10

Beam Angle (-3dB Half Power):	<10° inclusive
Operating Frequency:	41 kHz
Measurement Range:	300 mm to 10 m (11.8 in to 32.8 ft)

APPROVALS

CE Approval:	Listed in the Certificate of Conformity within the manual
ATEX Approval:	Ex II 1G EEx ia IIC T4 (Tamb = -40 °C to +80 °C)

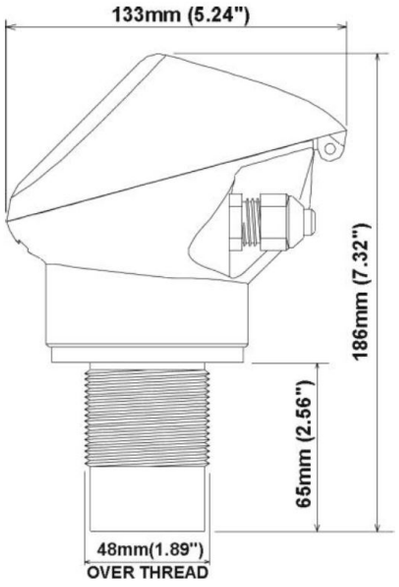
PERFORMANCE

Input Voltage:	11-30 V, 3.5-22mA
Accuracy:	± 0.25% or 6 mm (0.2 in), *whichever is greater*
Resolution:	± 0.1% or 2 mm (0.2 in), *whichever is greater*

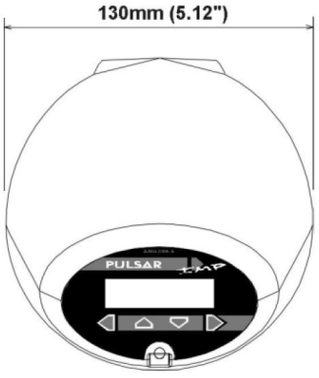
4-20mA Outputs:	Resolution 5 µA (both active and passive outputs)
Temperature Compensation:	Via internal temperature sensor (±0.5 °C (32.9 °F) accuracy). Level and volume conversions are installed allowing linearization for tank shapes
PC Interface-PC Suite:	All parameters can be accessed and changed through PC Suite software. Echo traces may be viewed on-screen.

2 WIRE CONFIGURATION FEATURES

- 4-digit LCD display
- 4 button keypad for parameter entry



IMP drawing side



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Delivering the Measure of Possibility

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