

# 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 (0.98 ft, 20 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

<b>Controller Body Dimensions:</b>	186 mm H x 133 mm D (5.24 in x 7.32 in)
<b>Weight:</b>	Nominal 1 kg (2.2 lb)
<b>Cable Entry Detail:</b>	2 off cable glands 4.5 mm to 10 mm (0.18 in to 0.39 in); <i>Torque to 2 NM</i>
<b>Mounting:</b>	1.5" BSP/NPT (IMP3 & IMP6), 2" BSP/NPT (IMP10)

### ENVIRONMENTAL

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

### IMP3

<b>Beam Angle (-3dB Half Power):</b>	<10° inclusive
<b>Operating Frequency:</b>	125 kHz
<b>Measurement Range:</b>	0.2 m to 3 m (0.66 ft to 10 ft)

### IMP6

<b>Beam Angle (-3dB Half Power):</b>	<10° inclusive
<b>Operating Frequency:</b>	75 kHz
<b>Measurement Range:</b>	0.3 m to 6 m (0.98 ft to 20 ft)

### IMP10

<b>Beam Angle (-3dB Half Power):</b>	<10° inclusive
<b>Operating Frequency:</b>	41 kHz
<b>Measurement Range:</b>	0.3 m to 10 m (0.98 ft to 33 ft)

### APPROVALS

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

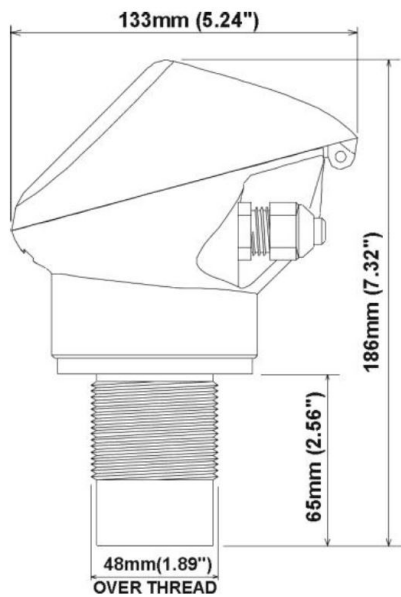
### PERFORMANCE

<b>Input Voltage:</b>	11-30 V, 3.5-22mA
<b>Accuracy:</b>	± 0.25% or 6 mm (0.24 in), <i>whichever is greater</i>
<b>Resolution:</b>	± 0.1% or 2 mm (0.24 in), <i>whichever is greater</i>

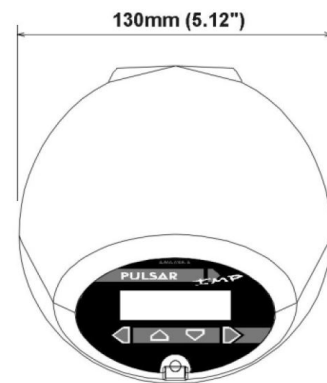
<b>4-20mA Outputs:</b>	Resolution 5 $\mu$ A (both active and passive outputs)
<b>Temperature Compensation:</b>	Via internal temperature sensor ( $\pm 0.5$ °C (32.9 °F) accuracy). Level and volume conversions are installed allowing linearization for tank shapes
<b>PC Interface-PC Suite:</b>	All parameters 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



IMP drawing top



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