

# IMP+

## Technical Specifications:

IMP+ can be used wherever you need reliable, non-contacting, ultrasonic level measurement. Digital echo processing means IMP+ is perfect for slurries or liquids and anywhere you need a display telling you the level, or an analog output to interface with your site control system or drive a display.



### 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 (Torque to 2NM)
<b>Mounting:</b>	1.5 in BSP/NPT (IMP3 & IMP6), 2 in 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
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### PERFORMANCE

<b>Input Voltage:</b>	11-30 V, 3.5-22mA
<b>Accuracy:</b>	±0.25% or 6 mm (0.24 in), whichever is greater
<b>Resolution:</b>	± 0.1% or 2 mm (0.08 in), whichever is greater
<b>4-20mA Outputs:</b>	Resolution 5 µA, both active and passive outputs

**Temperature Compensation:** Via internal temperature sensor ( $\pm 0.5\text{ }^{\circ}\text{C}$  ( $32.9\text{ }^{\circ}\text{F}$ ) accuracy). Level and volume conversion are installed allowing linearization for tank shapes

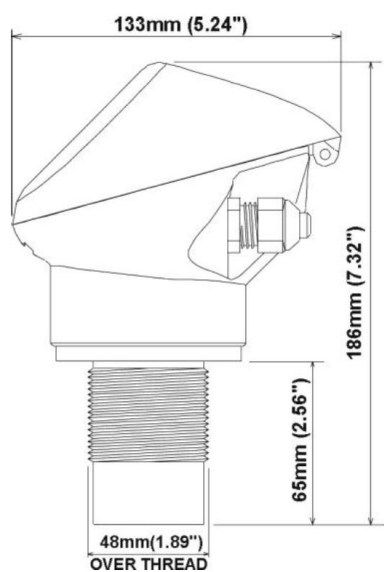
**PC Interface-PC Suite:** All parameters can be accessed and changed through PC Suite software. Echo traces may be viewed on screen.

## 2 WIRE CONFIGURATION FEATURES

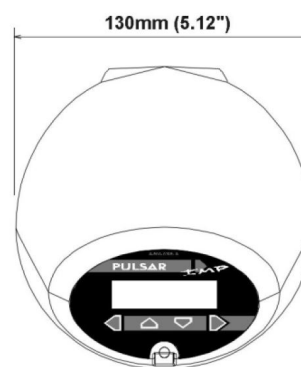
- RS232 (RJ11 port) connection for diagnostics and software updates
- 4 Digit LCD display
- 4 button keypad for parameter entry
- Power consumption: 3.5-22mA
- Passive 4-20mA output

## 3 WIRE CONFIGURATION FEATURES

- All 2-wire version features plus:
- Backlit LCD display
- 0-10 V analog output
- 2 relays: single pole two way, 1A 30 V DC/AC
- Power consumption with relays energised <60 mA (less 12 mA/relay not energized)
- Active and passive 4-20mA outputs



IMP drawing side



IMP drawing top



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