

# 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 (5.2 in x 7.3 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>            | 200 mm to 3 m (7.9 in to 9.8 ft) |

### IMP6

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

### IMP10

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

### APPROVALS

|                     |   |
|---------------------|---|
| <b>CE Approval:</b> | Listed in the Certificate of Conformity within the manual |
|---------------------|---|

### PERFORMANCE

|                        |  |
|------------------------|--|
| <b>Input Voltage:</b>  | 11-30 V, 3.5-22mA                                |
| <b>Accuracy:</b>       | ±0.25% or 6 mm (0.2 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

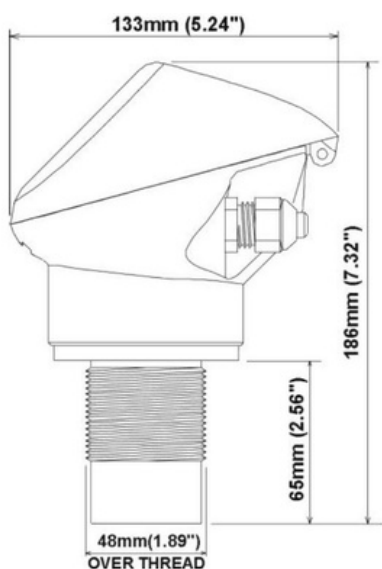
**PC Interface-PC Suite:** All parameters can be accessed and changed through PC Suite software. Echo traces may be viewed on-screen.

## 2 WIRE CONFIGURATION FEATURES

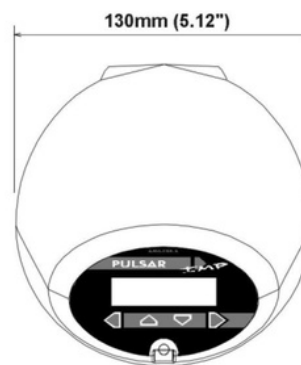
- RS232 (RJ11 port) connection for diagnostics and software updates
- 4 Digit LCD display
- 4 button keypad for parameter entry
- Power consumption: 3.5-22mA
- Passive 4-20mA output

## 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  $< 60\text{ mA}$  (less 12 mA/relay not energized)
- Active and passive 4-20mA outputs



IMP drawing side



IMP drawing top

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