



# 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); <i>Torque to 2 NM</i> |
| 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)          |

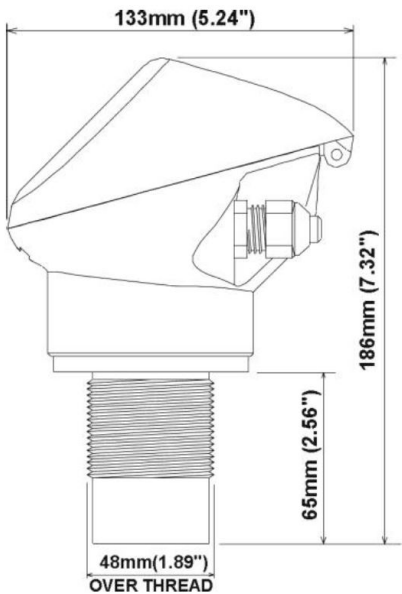
### PERFORMANCE

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

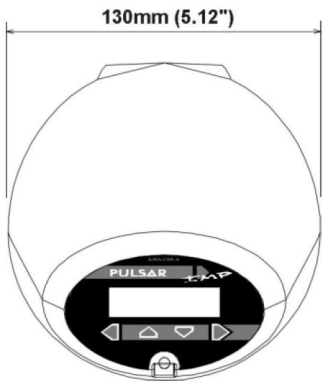
|                           |   |
|---------------------------|---|
| 4-20mA Outputs:           | Resolution 5 $\mu$ A (both active and passive outputs)  |
| Temperature Compensation: | Via internal temperature sensor ( $\pm 0.5$ $^{\circ}$ C (32.9 $^{\circ}$ F) accuracy). Level and volume conversions 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



IMP drawing top



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