

# IMP LITE

## Technical Specifications:

IMP Lite can be used wherever you need reliable, non-contacting, ultrasonic level measurement. Digital echo processing means IMP Lite 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. 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>	175 mm H x 130 mm D (6.9 in x 5.12 in)
<b>Weight:</b>	Approximately 1 kg (2.2 lb)
<b>Cable Entry Detail:</b>	2 off 16 mm (0.63 in) cable glands 3.5 mm to 10 mm (0.14 in to 0.39 in) cable diameter
<b>Mounting:</b>	1.5 in (3 m (10 ft) and 6 m (2 ft) range versions), 2 in (10 m (33 ft) version) universal thread — suits BSP and NPT, parallel and tapered

### 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)

### PERFORMANCE

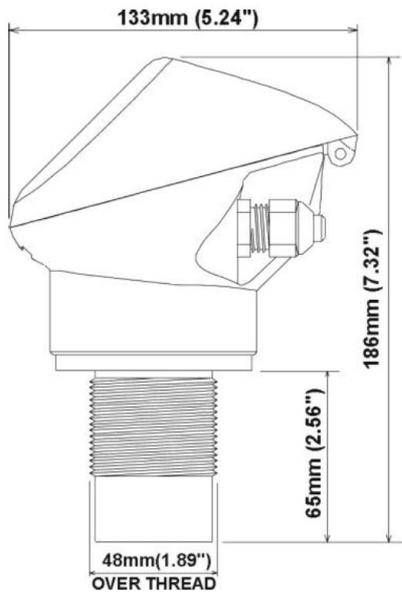
<b>Input Voltage:</b>	11-30 V, 3.5-22mA
<b>Accuracy:</b>	±0.25% or 6 mm (0.24 in), <i>whichever is greater</i>
<b>Resolution:</b>	±0.1% or 2 mm (0.08 in), <i>whichever is greater</i>
<b>4-20mA Outputs:</b>	Resolution 5 µA, both active and passive outputs
<b>Temperature Compensation:</b>	Via internal temperature sensor, ±0.5 °C (32.9 °F) accuracy. Level and volume conversion are installed allowing linearization for tank shapes

**2-wire Configuration:**

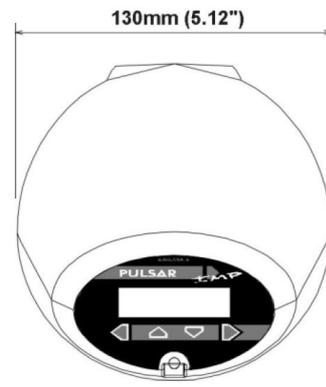
RS232 (RJ11 port) connection for diagnostics and software updates  
4 digit LCD display  
4 button keypad for parameter entry  
Power consumption: 3.5-22mA  
Passive 4-20mA output  
No flammable atmosphere approval

**PC Interface-PC Suite:**

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



IMP drawing side



IMP drawing top

## Delivering the Measure of Possibility

Pulsar Measurement offers worldwide professional support for all of our products, and our network of reps and distributors all offer full support and training. Our facilities in Malvern, UK and Largo, USA are home to technical support teams who are always available to answer your call or attend your site when required. Our global presence, with direct offices in the UK, USA, Canada, and Malaysia allow us to create close relationships with our customers and provide service, support, training, and information throughout the lifetime of your product.

For more information, please visit our website:

[www.pulsarmeasurement.com](http://www.pulsarmeasurement.com)



INFO@PULSARMEASUREMENT.COM

*Pulsar Measurement is a trading name of Pulsar Process Measurement, Ltd.*

*Copyright © 2020 Pulsar Measurement  
Registered Address: 1 Chamberlain Square CS, Birmingham B3 3AX  
Registered No.: 3345604 England & Wales*

**United States**  
11451 Belcher Road South  
Largo, FL 33773  
888-473-9546

**Canada**  
16456 Sixsmith Drive  
Long Sault, Ont. K0C 1P0  
855-300-9151

**United Kingdom**  
Cardinal Building, Enigma  
Commercial Centre  
Sandy's Road, Malvern WR14 1JJ  
+44 (0) 1684 891371