

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

Controller Body Dimensions:	186 mm H x 133 mm D (5.24 in x 7.32 in)
Weight:	Nominal 1 kg (2.2 lb)
Cable Entry Detail:	2 off cable glands 4.5 mm to 10 mm (Torque to 2NM)
Mounting:	1.5 in BSP/NPT (IMP3 & IMP6), 2 in 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:	0.2 m to 3 m (0.66 ft to 10 ft)

IMP6

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

IMP10

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

APPROVALS

CE Approval:	Listed in the Certificate of Conformity within the manual
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PERFORMANCE

Input Voltage:	11-30 V, 3.5-22mA
Accuracy:	±0.25% or 6 mm (0.24 in), whichever is greater
Resolution:	± 0.1% or 2 mm (0.08 in), whichever is greater
4-20mA Outputs:	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

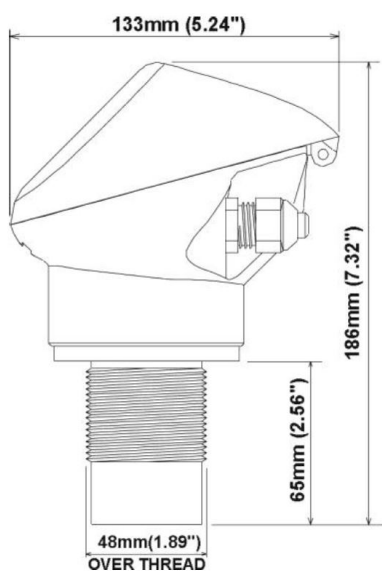
PC Interface-PC Suite: All parameters can be accessed and changed through PC Suite software. Echo traces may be viewed on screen.

2 WIRE CONFIGURATION FEATURES

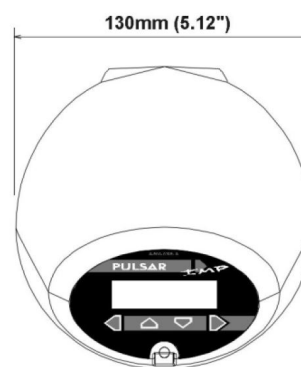
- RS232 (RJ11 port) connection for diagnostics and software updates
- 4 Digit LCD display
- 4 button keypad for parameter entry
- Power consumption: 3.5-22mA
- Passive 4-20mA output

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



INFO@PULSARMEASUREMENT.COM

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Registered Address: 1 Chamberlain Square CS, Birmingham B3 3AX
Registered No.: 3345604 England & Wales*

Delivering the Measure of Possibility

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

Rev 1.0