

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

Controller Body Dimensions:	175 mm H x 130 mm D (6.9 in x 5.1 in)
Weight:	Approximately 1 kg (2.2 lb)
Cable Entry Detail:	2 off 16 mm (0.63 in) cable glands 3.5 mm to 10 mm (0.14 in to 0.4 in) cable diameter
Mounting:	1.5 in (3 m (9.8 ft) and 6 m (2 ft) range versions), 2 in (10 m (32.8 ft) version) universal thread — suits BSP and NPT, parallel and tapered

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)

PERFORMANCE

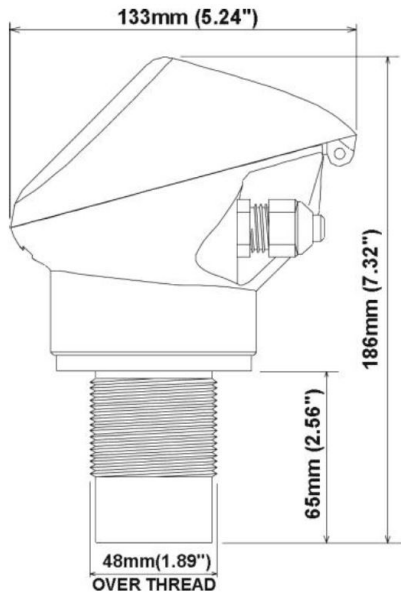
Input Voltage:	11-30 V, 3.5-22mA
Accuracy:	±0.25% or 6 mm (0.2 in), whichever is greater
Resolution:	±0.1% or 2 mm (0.08 in), whichever is greater
4-20mA Outputs:	Resolution 5 µA, both active and passive outputs
Temperature Compensation:	Via internal temperature sensor, ±0.5 °C (32.9 °F) accuracy. Level and volume conversion are installed allowing linearization for tank shapes

2-wire Configuration:

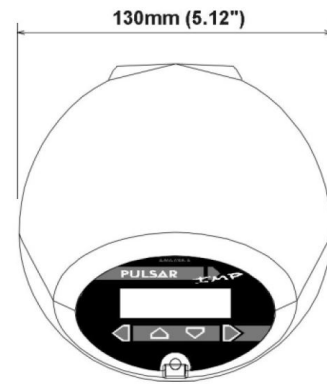
RS232 (RJ11 port) connection for diagnostics and software updates
4-digit LCD display
4 button keypad for parameter entry
Power consumption: 3.5-22mA
Passive 4-20mA output
No flammable atmosphere approval

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

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