IMP LITE

Lower cost loop-powered alternative to IMP+ with 2-wire configuration and RJ11 port.

The IMP series is a range of compact, low-profile self-contained units with the benefit of digital echo processing.

There is an IMP unit to suit your application. 3 m (9.8 ft), 6 m (19.7 ft), and 10 m (32.8 ft) range versions are available and each can be wired for 2 wire or 3 wire operation. The IMP Lite features an LCD display and digital temperature measurement and compensation with 2 relay outputs as standard.

Where can I use the IMP Lite?

The IMP Lite can be used wherever you need a reliable non-contacting level measurement: digital echo processing means IMP Lite is perfect for solids or liquids. Sumps, tanks, silos. Anywhere you need a display telling you the level or an analog output to interface with your site control system or drive a display.

Battery Power

When used on battery power for intermittent (wake-up) applications, the IMP Lite features a high-speed boot up of around circa 3 seconds which maximizes battery life. For example, if an IMP were switched on every 15 minutes for a 3-second reading, the average current is a mere 40µA.

System Integration

Active and passive (sourcing and sinking) analog outputs assist with system integration, especially when retrofitting into older installations.

THE RIGHT METER FOR

- Tank Level Applications
- Chemical Dosing
- Simple Level Indication
- Open & Closed Vessel Level Requirements
- Solids Level Indication

Simple to Install

The compact IMP Lite is only 175 mm (6 in) high with a 130 mm (5 in) diameter. Cable glands are provided and IMP Lite can be simply screwed into a 1.5" or 2" universal fitting (a 1.5" or 2" adapter is available). High transducer power and tight beam angles, together with Pulsar Measurement's digital echo processing, makes IMP Lite ideal for many "difficult" applications such as dusty or foamy environments, or where a tank has unavoidable intrusions.

The integral display makes programming IMP Lite extremely straightforward. IMP Lite can be completely set up, without compromising the IP rating, using the integral keypad alone with no need for a PC. Optional IMP PC software makes it easy to fine-tune IMP's performance and "clone" any number of IMP units to the same settings if, for example, they are being used on a tank farm.

Inside the lid of an IMP Lite

IMP Lite PC Software

IMP PC is optional software that extends the capabilities of the IMP+ and allows a user too:

- **Download, analyze, and store echo profiles.** A great way to see exactly what is happening in the application. Fine-tuning for ultimate performance.
- **Set-up IMP Lite.** All programming parameters are instantly visible in the IMP PC programming screens. Program the IMP unit on a desktop before installation, or clone several IMPs to save valuable time.
- **Updates.** Future-proof your IMP Lite! Pulsar Measurement's policy of continual improvement means that we never stop developing our products. IMP PC allows new firmware to be installed into your IMP unites, without even removing them from the application.
- **Flow Measurement.** A flow curve may be added within IMP PC to configure for simple level to flow linearization.

Optional mounting bracket for IMP sensors

Service and Installation

Our award-winning products are favored worldwide due to their reliability and easy menu-driven set-up, our product range is designed to provide a full range of alternatives from a single measurement point right through to multi-point applications with digital communications.

All products from Pulsar Measurement are designed to be easily installed and set up, but if you are unsure of your installation our service engineers are ready to assist you. From telephone and web support, through to on-site commissioning and on/off-site product training. We will ensure that you get the most out of your product and sales experience with Pulsar Measurement.

If you are unsure of your application requirements or which product is right for you, our sales, service and technical teams are available to discuss your application and technology requirements, ensuring you receive expert advice.

For more information on our service offerings, please visit the website or contact one of our head offices.

Technical Specifications

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

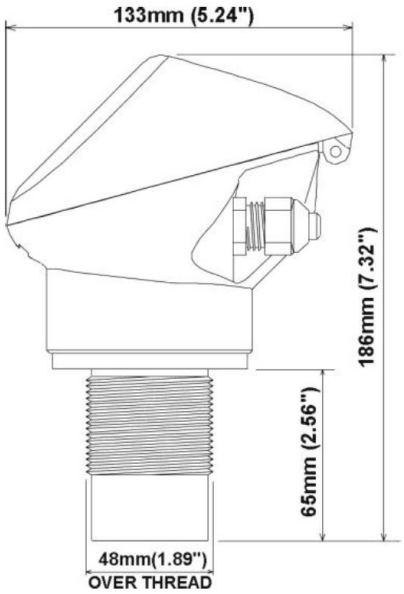
Beam Angle (-3dB Half Power):	<10° inclusive
Operating Frequency:	75 kHz
Measurement Range:	300 mm to 6 m (11.8 in to 19.7 ft)

IMP10

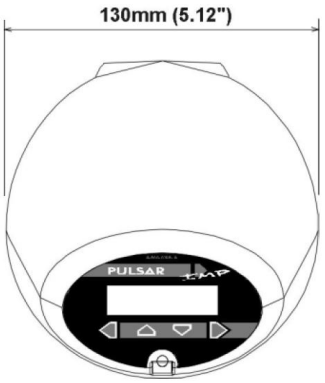
Beam Angle (-3dB Half Power):	<10° inclusive
Operating Frequency:	41 kHz
Measurement Range:	300 mm to 10 m (11.8 in to 32.8 ft)

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



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Delivering the Measure of Possibility

Pulsar Measurement offers worldwide professional support for all of our products, and our newtork of global partners 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:

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