

## Ultrasonic Level Sensor

IMP+ can be used wherever you need reliable non-contacting ultrasonic level measurement and digital echo processing means IMP+ is perfect for slurries or liquids and anywhere you need a display telling you the level, or an analogue output to interface with your site control system or drive a display.

There is an IMP+ to suit your application, 3m, 6m and 10m range versions are available and each can be wired for 2-wire and 3-wire operation. IMP+ features a LCD display and digital temperature measurement and compensation. IMP+ also has 2 relay outputs as standard.

## Technical Specification:

Dimensions:	186mm ø height x 133mm ø diameter (5.24 x 7.32in)			
Cable entry:	2 off cable glands 4.5 -10mm (Torque to 2NM)			
Mounting:	1.5" BSP/NPT (IMP3 & IMP6), 2" BSP/NPT (IMP10)			
Weight:	Nominal 1kg (2.2lb)			
VARIANTS:				
Model:	Measurement range:	Operating frequency:	Beam angle (-3dB half power):	
IMP3	0.2 - 3m (0.66 - 10ft)	125kHz	<10° inclusive	
IMP6	0.3 - 6m (0.98 - 20ft)	75kHz	<10° inclusive	
IMP10	0.3 - 10m (0.98 - 33ft)	41kHz	<10° inclusive	
ENVIRONMENTAL:				
Enclosure protection:	IP67			
Max. and min. temperature (ambient):	-40°C to +65°C (-40°F to +149°F)			
Max. and min. temperature (process):	-40°C to +80°C (-40°F to +17	-40°C to +80°C (-40°F to +176°F)		
APPROVALS:				
CE approval:	Listed in the Certificate of Conformity within the manual			
PERFORMANCE:				
nput voltage range:	11-30V, 3.5-22mA			
Accuracy:	±0.25% or 6mm (0.24in) whichever is greater			
Resolution:	±0.1% or 2mm (0.08in) whic	±0.1% or 2mm (0.08in) whichever is greater		
4-20mA outputs:	Resolution 5µA (both active and passive outputs)			
Temperature compensation:	•	Via internal temperature sensor (±0.5°C accuracy). Level and volume conversion are installed allowing linearisation for tank shapes.		
PC Interface:	All parameters can be acces viewed on screen.	All parameters can be accessed and changed through <u>PC Suite software</u> . Echo traces may be viewed on screen.		
2-WIRE CONFIGURATION FEATUR	ES: 3	WIRE CONFIGURATION FEAT	URES:	
RS232 (RJ11 port) connection for diagnostics and software updates		All 2-wire version features plus: Backlit LCD display		

4 digit LCD display 4 button keypad for parameter entry Power consumption: 3.5 - 22mA

Passive 4-20mA output

Active and passive 4-20mA outputs

2 relays: single pole two way, 1A 30VDC/AC

Power consumption with relays energised <60mA (less 12mA/relay not

0-10V analogue output

energised)

Pulsar Process Measurement Ltd. operates a policy of constant development and improvement and reserves the right to amend technical details as necessary.

Literature No. IMP-Plus-D-0817 Copyright © 2017 Pulsar Process Measurement Ltd. Pulsar Process Measurement Ltd. Malvern, WR14 1JJ, UK Tel: +44 (0) 1684 891371 Email: info@pulsar-pm.com Pulsar Process Measurement Inc. Niceville, FL 32578, USA Tel: +1 850 279 4882 Email: info.usa@pulsar-pm.com

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