

IMP+ I.S.

Level

Volume

ATEX Approved Level Sensor

IMP+ I.S. is a combined transducer and controller in one self-contained unit and is I.S. certified to ATEX EEx ia IIC T4 and IECEx.

IMP+ I.S. benefits from a specially designed digital echo processing technique and is available in three versions, 3m, 6m or 10m range. The full IMP range is available with the wetted parts in PVDF build alternative for corrosive or aggressive applications.



Technical Specification:

PHYSICAL:

Dimensions:	186mm \varnothing height x 133mm \varnothing 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 +176°F)

APPROVALS:

CE approval:	Listed in the Certificate of Conformity within the manual
ATEX approval:	Ex II 1G EEx ia IIC T4 (Tamb = -40°C to +80°C)

PERFORMANCE:

Input voltage range:	11-30V, 3.5-22mA
Accuracy:	$\pm 0.25\%$ or 6mm (0.24in) whichever is greater
Resolution:	$\pm 0.1\%$ or 2mm (0.08in) whichever is greater
4-20mA outputs:	Resolution 5 μ A (both active and passive outputs)
Temperature compensation:	Via internal temperature sensor ($\pm 0.5^\circ\text{C}$ accuracy). Level and volume conversion are installed allowing linearisation for tank shapes.
PC Interface:	All parameters can be accessed and changed through PC Suite software . Echo traces may be viewed on screen.

2-WIRE CONFIGURATION FEATURES:

- 4 digit LCD display
- 4 button keypad for parameter entry

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-IS-D-0817
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