

Imp I.S. datasheet



The Intrinsically Safe **Imp I.S. 3, 6 & 10** is a range of Ultrasonic Level Transmitters. It offers a combined transducer and controller in one self contained unit, for non-contacting level measurement of liquids or solids. This ATEX zone 0 device draws a mere 0.48W on continuous operation with an impressive 4 second boot up time to make a valid reading



IMP I.S. - General

Function:	Level, Distance, Space or Volume
Display:	4 digit LCD adjustable backlit display
Housing Material:	Valox 357 PBT (Polybutylene terephthalate) optional - PVDF chemical resistant sensor face
Approvals:	ATEX Zone 0 – Intrinsically Safe (EEX ia) NEMA 4X (IP67) ARRA – American Recovery and Reinvestment Act (certification on request)
Boot Up Time:	4 seconds for a valid reading

Supply

Power Supply:	Loop powered 4-20mA 12-26V DC at Imp (not at the barrier) Voltage input to the I.S. barrier should be 20-24 volts DC
Power Consumption:	0.48W (loop powered - 20mA at 24VDC)

Performance

Temperature:	Ambient -40 to 149°F (-40 to 65°C) Transducer face -40 to 176°F (-40 to 80°C)
Beam Angle:	Effective 3° full beam angle with algorithms <10° full beam angle at -3dB
Accuracy:	0.25% of the measured range or 0.24 inches (6mm) (whichever is greater)
Resolution:	0.1% of the measured range or 0.08 inches (2mm) (whichever is greater)

Output

Analogue Output:	4-20mA via loop
Analogue Functions:	Level, Distance, Space or Volume

Programming

Programming:	4 key Integral keypad – menu driven
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Echo Processing

Echo Processing:	Digital echo processing
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Options

Chemical Resistant:	PVDF sensor face
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Imp I.S. 3

Range:	0.65 ft. – 10 ft. (0.2m – 3.0m)
Mounting:	1.5" NPT front nose

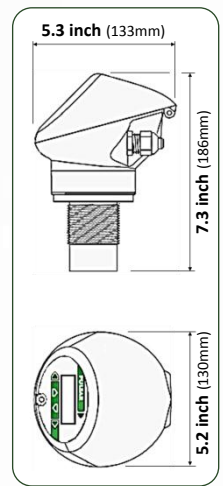
Imp I.S. 6

Range:	1.0 ft. – 20 ft. (0.3m – 6.0m)
Mounting:	1.5" NPT front nose

Imp I.S. 10

Range:	1.0 ft. – 33 ft. (0.3m – 10.0m)
Mounting:	2.0" NPT front nose

Imp I.S. 3 & 6



Imp I.S. 10

