

Imp lite datasheet



The **IMP lite 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 simple to use loop powered device draws a mere 0.48W on continuous operation. This device draws a mere 0.48W on continuous operation with an impressive 4 second boot up time to make a valid reading



IMP lite - 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:	NEMA 4X (IP67) ARRA – American Recovery and Reinvestment Act (certification on request)
Boot Time:	4 seconds to make valid reading (current consumed during wake up, 7mA @ 12V DC)

Supply

Power Supply:	Loop powered 4-20mA 11-30V 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) or Imp PC software
PC Interface:	Imp PC - all parameters accessible and echo traces viewable

Echo Processing

Echo Processing:	Digital echo processing
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Options

Chemical Resistant:	PVDF sensor face
PC Software:	Imp PC

Imp lite 3

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

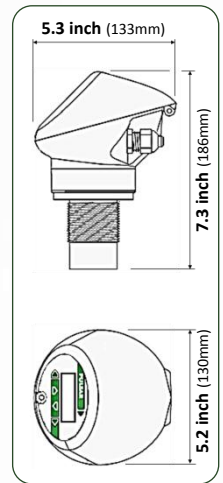
Imp lite 6

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

Imp lite 10

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

Imp lite 3 & 6



Imp lite 10

