

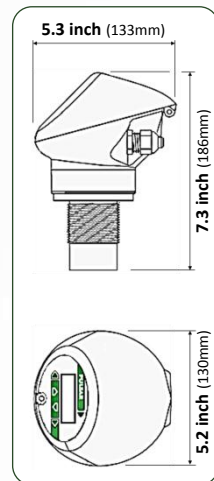
Imp+ datasheet



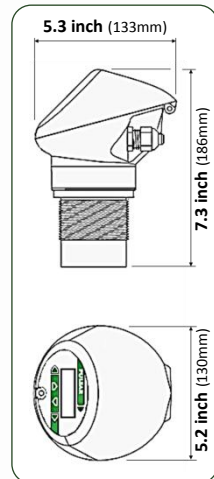
The **IMP+ 3, 6 & 10** is a range of Ultrasonic Level Transmitters. It offers a combined transducer and controller in one self contained unit, for non-contacting level measurement of liquids or solids. Choose to wire in a 2 or 3 wire configuration, drawing a mere 0.48 W on continuous operation in loop powered mode, with an impressive 4 second boot up time to make a valid reading.



Imp+ 3 & 6



Imp+ 10



IMP+ - 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 Up Time:	4 seconds for a valid reading

Supply

Power Supply:	11-30V DC or loop powered 4-20mA 12-26V 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

Important Note:	Wiring the device in 4-20mA loop powered mode will disable all other outputs.
Relays:	2, form "C" SPDT relays, rated 1A at 30V DC/AC
Relay Functions:	General level alarm, general on/off control, device failed.
Analogue Output:	4-20mA via loop (into 600Ω at 24vDC)
Analogue Functions:	Level, Distance, Space or Volume
Voltage Output:	0-10V (relative to the span)

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+ 3

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

Imp+ 6

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

Imp+ 10

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