



IR 'C' Sensors

Suspended Solids and Turbidity Sensors

PRODUCT DATASHEET

SENSOR RANGES

IR100C - 0-200 mg/l
IR40C - 0-1,500 mg/l
IR15C - 0-10,000 mg/l
IR8C - 0-30,000 mg/l

PRINCIPAL OF OPERATION

Infrared Light Attenuation
950 nm Wavelength

APPLICATIONS

Environmental Research
Sediment Transfer
Glacial Stream Monitoring

FEATURES

Low Cost
Easy to Use
Simple interface to range of logging devices

BENEFITS

Long term Suspended Solids trend reporting
Vastly reduced laboratory analysis
24/7 trending not spot sampling



The IR 'C' version of Partech's trusted range of infrared based Suspended Solids and Turbidity sensors is aimed at applications in the environmental monitoring and research fields. It has been specifically developed to work with a wide range of data logging devices that are in common use at universities and research organisations. The sensor produces an output signal that can be calibrated either within the logger or via a spreadsheet to provide a linear response to the actual solids present in the water being monitored.

Being exceptionally easy to deploy and having a very low power consumption there are no hidden costs to the purchase of these sensors. Partech are happy to put together a monitoring package including a logger, power source and weatherproof enclosure. These packages will allow data to be retrieved without visiting the site, keeping project costs down and allowing measurements over wide areas.

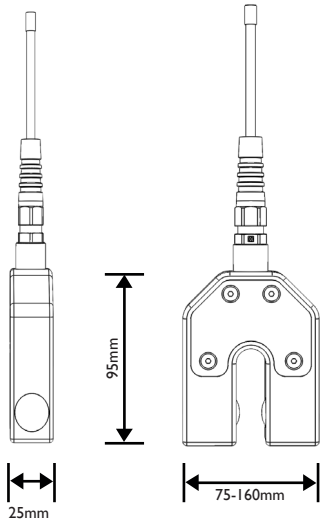
Call us on + 44(0) 1726 879800 www.partech.co.uk



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Physical

Dimensions
Weight
Nominal Gap Size

95 x 25 mm (H x D)
0.7 kg (inc 10 metres of cable)
0-200 mg/l Range: 100 mm
0-1,500 mg/l Range: 40 mm
0-10,000 mg/l Range: 15 mm
0-30,000 mg/l Range: 8 mm

Protection Class
Enclosure Material
Cable Entries
Cable Type
Cable Length
Service Requirement

IP68
Black Acetal Co-Polymer
Integral Cable Gland
4 core, 2 Twisted Pair, 5 mm O/D Polyurethane Coated
10 metres standard, 100 metres maximum
No Routine servicing
Will require manual cleaning, frequency is application dependent

Electrical

Power Supply
Output Signal

12VDC
0-5mA

Shallow 'S' shaped curve will need linearisation against actual sit sample prior to use

Environmental

Operating Temperature

0 to 40°C

Measurement

Measuring Principle
Wavelength

Infrared Light Absorption
950 nm

Sensor Selection

IR100
IR40
IR15
IR8

Nominal Range (mg/l)

200
1,500
10,000
30,000

Minimal Detection

0.5 mg/l
3 mg/l
150 mg/l
500 mg/l

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The company reserves the right to alter the specification without prior notice. E&OE

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