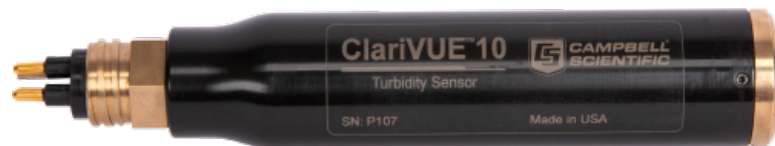




ClariVUE10

ISO 7027 Compliant, Side-Scatter Turbidity Sensor



Side-Scatter Measurements with ISO 7027 Compliance

Overview

The ClariVUE™10 is an ISO 7027 compliant, submersible, side-scatter turbidity sensor. It outputs an SDI-12, digitally processed signal that all modern Campbell Scientific data

loggers can measure. The side-scatter turbidity measurement can be used as a surrogate for suspended sediment concentration in aquatic ecosystems.

Benefits and Features

- › Measures suspended solids and turbidity for up to 4000 FNUs
- › Provides a compact, low-power probe that is field proven
- › Compatible with modern Campbell Scientific data loggers
- › Accurate and rugged

Detailed Description

The ClariVUE™10 is an ISO 7027 compliant, side-scatter turbidity sensor. It returns data via SDI-12 to a data logger. Turbidity is a common surrogate measurement for suspended sediment concentration in aquatic systems. The ClariVUE™10 is designed to operate in fresh and saline environments. It will

require regular maintenance to keep the optical window clean in high bio-fouling environments. The face of the sensor is made from copper to slow biological growth over the optical windows.

Specifications

| | | | |
|-----------------------------|---|--------------------|---------------------------------------|
| Standards | Meets ISO 7027-1:2016 (side scatter) standard for turbidity measurements. | Measurement Range | 0 to 4000 FNU |
| Compliance | SDI-12 v1.4 compliant | Resolution | 0.2 FNU |
| Operating Temperature Range | -2° to +40°C | Accuracy | ±2% or 0.5 FNU (whichever is greater) |
| | | Power Requirements | 9.6 to 18 Vdc |
| | | Measurement Time | 9 s (with an M! instruction) |

| | |
|------------------------|---|
| Housing Material | Delrin® plastic |
| Head Material | Marine-grade bronze |
| Optics | Sapphire lens |
| Connector Descriptions | Marine-grade bronze, gold-plated pins |
| Connector Description | Bronze 3-pin wet-mate |
| Cable Type | 3-conductor, polyurethane jacket with water block |
| Optical Assembly | Sealed with double O-rings |

| | |
|--------------------------|----------------------------------|
| Temperature Accuracy | ±0.2°C |
| Maximum Submersion Depth | 30.48 m (100 ft) for the plastic |
| Diameter | 30.1 mm (1.185 in.) |
| Length | 166 mm (6.54 in.) |
| Weight | 158.76 g (0.35 lb) |

Power Consumption

| | |
|-------------|----------|
| Quiescent | < 300 µA |
| Measurement | < 35 mA |

For comprehensive details, visit: www.campbellsci.com/clarivue10 



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