



Suitable for long-term turbidity & temperature monitoring & logging

Datasheet

Analite NEP-695

Turbidity & temperature long-life logging probe

The NEP-695 is an all-in-one device that contains a scriptable SDI-12 logger with an integrated rechargeable battery designed for long-term operations.

The system is cased in a fully water-sealed housing that can support up-to 50 meters of water pressure.

Designed to be fitted with the NEP-5000 SDI-12 option, the NEP-695 is a logging solution to monitor the turbidity. The NEP-695 has a built-in 6-pin female Subconn connector as a sensor interface. It provides the ability to connect multiple SDI-12 sensor networks to monitor several water quality sensors.

When the NEP-695 is integrated with the NEP-5000 sensor, the following features can be obtained:

- Simple turbidity and temperature reading in auto-range (providing identical functionality as the NEP-495).
- Statistical measurement over a set period of time.
- Event logging through scripting.
- Ability to have a 90-degree NEP-5000 with 180-degree NEP-5000 sensor providing seamless transition between drinking water monitoring to sediment monitoring.
- Adding secondary SDI-12 parameters such as conductivity, PH and dissolved oxygen via the SDI-12 bus (up to 9 sensors in total).

Built-in logger:

The NEP-695 contains the OEM CR300 logger by Campbell Scientific. This is a proven working solution by many Analite customers, which will provide a scriptable logging capability.

Built-in rechargeable battery:

The main advantage of having a built-in rechargeable battery is its low running cost. Hence, users are not required to buy expensive batteries.

Built-in Lithium-ion batteries have a capacity of 144Wh which can be charged via simple DC plug-pack or solar input. Thus, providing ideal dropping solution for data-buoys and river monitoring applications.

Endurance

When using the battery on its own, with the NEP-5000 sensor, the system is capable of measuring 27,000 measurements. This is approximately 5 months in 10 minute-intervals or indefinite use when connected to a 20W solar panel.

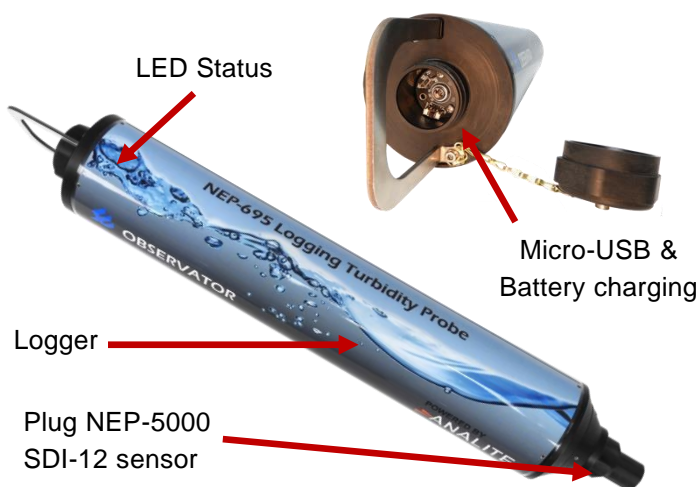
Operating temperature -5°C (non-freezing) to 50°C

Storage temperature -10°C to 55°C

Weight 2.4kg – including batteries

Construction Outer tube construction with polycarbonate tube and a structural support using a stainless steel chassis. The probe interface assembly and the rear electrical interface assembly is made from Delrin plastic.

Depth rating 52m (170ft) static water column



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