

TS210 Temperature String

A temperature string shall be provided to provide a temperature profile of the water column in (Specify Location).

The temperature string shall incorporate an integral titanium thermistor secured in a protective housing for underwater deployments in fresh, brackish, or seawater.

The temperature string shall be connected in-series using integrated marine-grade cables available in multiple standard increments, both metric and imperial.

The temperature string cables shall incorporate a heavy wall, UV-stabilized polyurethane jacket, braided Kevlar core and flexible strain reliefs on both ends.

The temperature string connectors shall be waterproof to 200 ft. depths.

The temperature string shall transmit data on a RS-485 Modbus RTU bus with SDI-12, RS-232 and RS-485 pass-through signals to allow for connection of additional sensors (water quality, depth, etc.) to the end of the string.

The temperature string shall have an accuracy of +/- 0.075°C and resolution of 0.01°C.

The temperature string thermistor shall exhibit of long-term stability of less than or equal to 0.003°C over 50,000 hours of deployment.

The temperature string shall have the capability to add up to 250 temperature elements or 1219m of cable along a single string.

The temperature string shall terminate in a plug and receptacle connector, allowing the user to expand the string by purchasing additional sections.

The temperature string shall offer a waterproof connection to the data collection platform.

The temperature string shall offer mooring accessories for attachment to a 3/16" vinyl coated stainless steel mooring line.

The temperature string shall offer communication accessories to convert the output to RS-232.

The temperature string shall be Model TS210 as manufactured by NexSens Technology, Inc. or approved equal.