

Temperature Chain TC-01

Description

The Temperature Chain TC-01 is a spliceless chain of several fibre optic temperature sensors in series. The sensors are all contained in a stainless steel tube. The sensor has a connector at one end. The Temperature Chain can be



entirely configured according to the customer needs i.e. the length of the tube, the number of sensing points and their spatial distribution can all be specified.

Features

- Distributed temperature sensing
- Fully customizable to the customer needs
- Single ended configuration
- Watertight housing

Applications

Distributed temperature sensing for various purposes. Applicable both indoors as well as outdoors.

Standard specifications

| Parameter | Value |
|-------------------------------------|------------------|
| Temperature resolution ¹ | 0.1 °C |
| Temperature precision ¹ | 0.2 °C |
| Temperature range ^{2,3} | -20 °C to +80 °C |
| Sensor length | On request |
| Housing diameter | 4 mm |
| Housing material | SS316 |
| Pigtail diameter | 3 mm |
| Pigtail length ² | 1.5 m |
| Number of sensors | On request |
| Distance between sensors | On request |
| Connector type | FC/APC |
| Water tightness | IP68 |

¹ Taking into account a depolarized measurement device with a 1 pm wavelength resolution and precision.

² Extendable on request

³ For the sensor, not for the connector. For the high temperatures, splicing is recommended.



Ordering information

Contact the FOS&S Sales department on sales@fos-s.com

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