

## TrackSense® Pro Thermocouple Sensor

### TYPE DESIGNATION / ORDERING CODE

TSP TC SENSOR	/	35123501
TSP TC 10 CM LONG	/	35123521
TSP TC 30 CM LONG	/	35123523
TSP TC 50 CM LONG	/	35123525
TSP TC 100 CM LONG	/	35123530



The new TrackSense® option allows thermocouple temperature wires to be used in conjunction with wireless data loggers, which is ideal for industries that require highly accurate and small temperature sensors. This option is especially useful for applications in which measurements take place in a continuous process environment that results in sensors and wires becoming “wear and tear”.

Due to the unique design, it is possible to connect extremely thin thermocouple wires to the TC sensor to measure the temperature in small containers, e.g. freeze drying vials.

To connect a thermocouple wire, simply attach the blue wire to the + terminal and the red wire to the - terminal located on the top of the sensor. The sensor is interchangeable and completely compatible with any of the TrackSense® Pro data loggers. It can be handled through the ValSuite™ software just like any other TrackSense® Pro temperature sensor.

The thermocouple wire is oval with 0.55 x 0.95 mm dimensions and is offered in various standard lengths. The sensor has a temperature range of -80 to +62°C and is calibrated from -60 to +60°C, which offers an accuracy of  $\pm 0.3^\circ\text{C}$ . The wire is equipped with a “naked” tip that reduces the response time to an absolute minimum.

**Note:** Requires ValSuite™ version 5.1.0.10 or later, and logger firmware version 26.9 or later.

### MAIN ADVANTAGES:

- Ideal for monitoring sample temperatures during freeze drying
- Introduced into vials using LYO fittings, which ensures as little impact on samples as possible
- The TC sensor’s thermocouple wire can easily be replaced by using a screwdriver
- Ideal for applications that highly strain the wires
- The TC sensor has a built-in cold junction compensation that provides a state of the art accuracy of  $\pm 0.3^\circ\text{C}$
- The TC sensor can be cleaned by autoclave sterilization

