Rubber Fab's

SMART TRAKR™-T

Precision Temperature Data Logger

Rubber Fab's **SMART TRAKR™-T** is a miniature, battery powered, stand alone, **precision temperature recorder**. The **all-in-one compact, portable, easy to use device** will measure and record up to 21,845 measurements per channel. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged. The RTD sensor does not suffer from the cold-junction issues of the thermocouple nor the errors at high and low temperatures of the thermistor. The device can be started and stopped directly from your computer and its small size allows it to fit almost anywhere. **The SMART TRAKR™-T makes data retrieval quick and easy.** Simply plug it into an empty COM or USB port and our user-friendly software does the rest.

The Rubber Fab Smart Gasket® value is proven when validating sterility in a high purity pharmaceutical system. A standard sanitary ferrule utilizing the Smart Gasket® thermocouple gasket obtains the critical thermal mapping information needed during validation, combined with Rubber Fab's SMART TRAKR™-T provides real time data transfer!
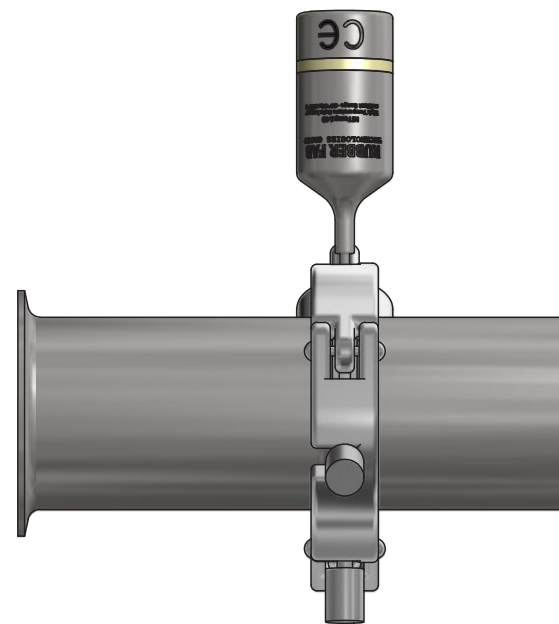
Features:
- N.I.S.T. Traceable
- Real-Time Operation
- Low Cost
- Programmable Start Time
- Reusable
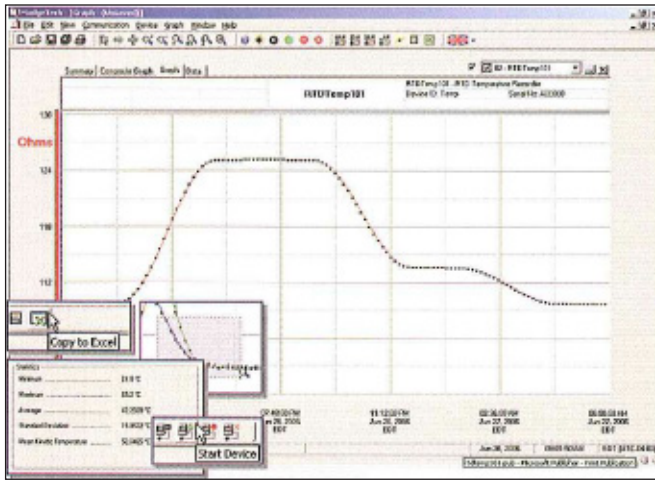- Miniature Size
- User-Friendly
- CE Compliant

Applications:
- Precision Temperature Recording
- Biopharmaceutical
- Food
- Dairy
- Beverage

Rubber Fab
a Garlock Hygienic Technologies company

Rubber Fab Data Recorder Software

Our software displays temperature data in an easy to use graph. The Windows®-based software package allows the user to effortlessly collect, display and analyze data. A variety of powerful tools allow you to examine, export, and print professional looking data with just a click of the mouse.

Software Features:

- **Multiple Graphs:** Simultaneously analyzes data from several units or deployments; easily switch to a single data series
- **Graphical Cursor:** One click displays readings by time, value, parameter or sample number
- **Data Table:** Instantly access tabular view for detailed dates, times, values, and annotations
- **Scaling Options:** Autoscale function fits data to the screen, or allows user to manually enter their own values
- **Formatting Options:** Change colors, line styles, plotting options, show or hide channels quickly
- **Statistics:** Calculate averages, min, max, standard deviation, and mean kinetic temperature with the touch of a button
- **Export Data:** Export data in a variety of common formats, or switch to Excel® with a single click
- **Calibration:** Automatically calculate and store calibration parameters
- **Logger Configuration:** Easy set up and launch of data loggers with immediate or delayed start, preferred sample rate, and device ID
- **Communications:** Automatically sets up communications port, or lets user select configuration

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SMART TRAK™-T Specifications:

Temperature**

Measurement Range: -200 to +850ºC

Resolution: 0.01ºC

Calibrated Accuracy:** ±0.05ºC (-200 to +260ºC)
±0.3ºC (+260 to +850ºC)

Resistance

Nominal Range: 0 to 5000Ω

Resolution: 0.001Ω

Calibrated Accuracy:** ±0.015Ω (0 to +200Ω)
±0.015Ω + 0.015% of reading
(200 to 400ºC)

Input Connection: Removable screw terminal;
2,3 or 4 wire interface

Temperature Effect on Span: <25ppm/ºC typical

Temperature Effect on Offset: <10ppm cumulative over
-40 to +80ºC

Start Modes: Software programmable immediate start or delay start up to six months in advance

Real Time Recording: May be used with PC to monitor and record data in real time

Memory: 21,845 readings

Reading Rate: 1 reading every 2 seconds to 1 every 12 hours

Calibration: Digital calibration through software

Calibration Date: Automatically recorded within device

Battery Type: 3.6V lithium battery included, user replaceable

Battery Life: 1 year typical (1 minute reading rate at 25ºC)

Date Format: Date and time stamped ºC, ºF, K, ºR, ohms

Time Accuracy: ±1 minute/month (at 20ºC, RS232 port not in use)

Computer Interface: PC serial or USB
(interface cable required); 2,400 baud

Software: Windows® 95/98/ME/NT/2000/XP based software

Operating Environment: -40 to +80ºC, 0 to 95%RH non-condensing

Dimensions: 1.4″ x 2.5″ x 0.6″ (36 mm x 64 mm x 16 mm)

Weight: 1.0 oz (28 g)

Approvals: CE

**Temperature specifications based on ideal 100Ω platinum RTD compliant with IEC 751 (1983) and ITS-90, 5000Ω (accuracy based on 36″ lead wire RTD with 4 wire configuration)

***Calibrated accuracies based on standard calibrations for 0 to 200Ω range

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