

Track-It™

Vacuum/Temperature Data Loggers

Description

The Track-It™ Vacuum/Temperature Data Logger is a battery powered stand alone compact data logger that records up to 64,000 samples. It can be configured to record both Vacuum and Temperature or either parameter alone to maximize data storage space. The unit is easily configured using the included Track-It™ Software and USB Cable. Simply connect the logger to an open USB port on your PC and the Track-It™ Software automatically identifies the logger. Configure the unit to start or stop recording immediately, at a predetermined time and date, or only when an alarm condition is sensed. The sample storage rate can be set from 1 sample every 2 seconds up to 1 sample every 24 hours. The on board data storage is non-volatile so data will not be lost in the event of a depleted battery. The Track-It™ Vacuum/Temperature



Data Logger can be ordered in ranges of 760-0 Torr and 760-380 Torr. The logger is packaged in a rugged submersible 316L stainless steel housing and has a standard 1/4" NPT fitting. The replaceable internal lithium battery has up to a 5 year life.

Features

- Programmable start/stop time
- Programmable sample rate
- Up to 64,000 samples per record
- Alarm set points
- Small compact size
- Software and USB cable included
- Rugged IP67 package
- Five year battery life (battery included!)
- Temperature range -4 to 185°F (-20-85°C)
- 760-0 Torr and 760-380 Torr ranges
- Multiple engineering unit conversions
- 150% over range protection
- 1/4" NPT male connection
- High accuracy and repeatability
- Accurate internal clock (1 minute/year)
- N.I.S.T. calibration available

Typical Uses

- Industrial Process
- Food and Drug Process
- Space Research
- Pharmaceutical labs
- Vacuum Furnace/Metallurgy
- Semiconductor/Solar
- Energy Management
- HVAC
- Oil and Gas
- Petro Chemical
- Automotive
- Pumps and Compressors
- Refrigeration and Air Conditioning
- Purge Systems

Track-It™ Vacuum/Temperature Data Loggers

Specifications

General

Record:	Sample Rates: User configured 1 every 2 seconds to 1 every 24 hours No. of Samples: 32,000 or 64,000 (depends on setup)
Record Trigger:	Two independent triggers. Multiple trigger modes: Instantaneous, button control, on alarm, time and date (start and stop), day of week
Record Mode:	Fill to end of memory or cyclic, number of samples and time duration
Alarms:	2 user programmable alarms. High or Low
Communication:	Direct USB connection
Software:	Track-It™ Software —Program device, view data (historic or real time), export to Excel™.
Battery:	Lithium 1/2AA 1.2Ah Life: Up to 5 years typical @ 1 minute sample rate
Enclosure:	Material: 316L Stainless Steel Dimensions: 5cm (dia.) x 5.6cm / 1.95" diameter x 2.19" (Excl. port thread)

Measurement

Vacuum Ranges:	760-0 Torr and 760-380 Torr
Accuracy:	± 0.5%
Resolution:	0.01%
Repeatability:	±0.05%
Overpressure Rating:	1.5 times max
Port connection:	1/4" NPT Male
Temperature Range:	-20 to +85°C / -4 to 185°F
Accuracy:	±0.5°C 0 to 50°C / 32 to 122°F ±2°C -20 to 85°C / -4 to 185 F
Resolution:	0.06°C / 0.11°F



Ordering Information

Item	Description	Part No.
Vacuum Track-It -380	760-380 Torr gauge Vacuum/Temp	5396-0307
Vacuum Track-It -760	760-0 Torr gauge Vacuum/Temp	5396-0308
NIST Pressure/Temp	NIST Traceable Cal Cert	5396-03xx-CAL

Track-It™ Software

Track-It™ Software is a powerful Windows based software package that is included with every Track-It™ Data Logger. It allows for easy setup, retrieval, interpretation and export of the recorded data. Simply connect your Track-It™ data logger to an open USB port and begin communicating immediately. Choose your pressure scale from a list that includes kPA, MPA, Bar, milliBar, mmHg, inHg, Atm, PSI, pascal, inH2O and torr. Record the average, instantaneous, maximum, or minimum pressure during your sample interval.

Point and click to select your sample interval, alarm set points, engineering units, recording triggers.

View a numerical data table or graphical representation of data readings relative to time. Use the graph tools such as zoom, cursor, min and max to examine and analyze the record. Track-It™ Software turns your PC into a real time data acquisition system by allowing you to stream graphical or tabular data directly to your PC. Export stored data into a spreadsheet in its entirety or partially using filters.

