TR-7xU Product Summary

The TR-7U family of two channel Thermo Recorders offers outstanding functionality and value in portable temperature and humidity data logging. Unusual for products in this category, these models incorporate an LCD display and control buttons that allow the user to start / stop recording and set the recording interval without the need to connect to a PC. The large, easy to read LCD can be set for real-time monitoring by displaying either measurement channel continuously or both channels on an alternating basis. It also displays important information about device status, operating mode and battery condition. For other functions, connection to a PC is accomplished through a quick and convenient, high speed USB interface. The ultra-simple USB connectivity provides for lightning fast downloading. It takes only about 8 seconds to transfer the entire contents of a full memory! Completely unique, TandD's TR-7xU products are the only data loggers on the market today that allow for on-site data retrieval with a handheld Data Collector.

Also, as an outstanding added value for the user, T&D Recorder for Windows software is included free with every unit.
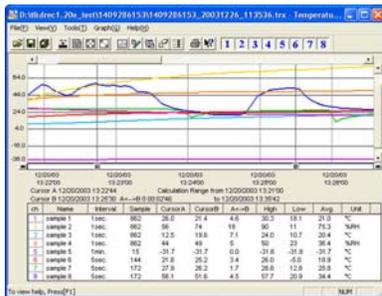
TR-71U

The TR-71U is a two-channel temperature data logger capable of storing 8,000 readings for each channel. The sampling rate can be set to any of 15 intervals, from once per second to once per hour, in either two recording modes. In one time mode the unit will take readings until the memory is full and then stop. In endless loop mode the unit will "wrap around" in memory once it is full and overwrite the oldest data. The TR-71U ships with external sensors that can record temperatures from -40 °C to 110 °C, however optional sensors are available that extend the measurement range to -60 °C to 155 °C.

TR-72U

The TR-72U is a two-channel combination temperature
and humidity data logger. Offering the same capacities
and settings as the TR-71U, and in addition to measuring
temperature from 0 °C to 50 °C, this model will also
measure and record relative humidity from 10% to95%.
In addition to the standard sensor pictured here, TandD
also makes available as an option a sensor with a 1-meter
cord and several extension cables. These devices operate
up to one full year on a single AA battery, and
incorporate a special memory backup feature, which will preserve recordings even after
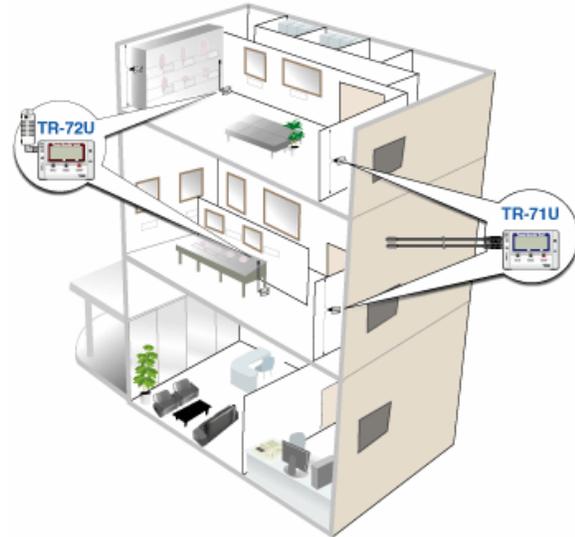the battery has been depleted.

T&D Recorder for Windows

Every TR-7U ships with T&D Recorder for Windows
software, included at no extra charge. This easy to use,
intuitive program provides for all aspects of system and
device setup, control of data recording, downloading of
recorded data from the TR-7 units, or a RTR-57C, and
has built-in tools for file management and display. When
recorded data is downloaded a data collection report is
displayed in an easy to view session list. These sessions
can be saved to file in either graphical or tabular format. T&D Recorder for Windows
allows for simultaneous, color-coded, graphical viewing of up to 8 channels of recorded
data. The individual channels can be scaled, re-ordered, viewed or hidden according to
needs. The view can be adjusted to taste using the built in zoom-in / zoom-out feature.
Tabular files can be exported as ASCII text in CSV format for use in external application
packages, such as Excel or LabView. In addition to storing, viewing and exporting data
sessions, T&D Recorder for Windows also includes a complete file print capability for
printing hard copy in both graphical and tabular formats.

A unique function incorporated into the TR-7xU product
family is the ability to use the T&D Recorder for
Windows software to provide an adjustment factor to
each unit individually. This adjustment is downloaded to
the unit in either a two-point, or point-plus-slope format
which is applied to measured parameters before
recording. In this way, a user with a known temperature
source can self calibrate his units.

Setup and Operation

System setup begins with installation of the T&D Recorder for Windows software, which is as simple as inserting the CD ROM into the PC and following the on-screen menus. Next the TR-7xU Thermo Recorder is connected to a USB port on the PC using the provided cable, and a logical connection is made with the software. Once connected, individual units can be assigned logical names for easy recognition. Then in preparation for use each device is programmed with start time, recording mode, recording interval and unit of measurement preference (°C or °F). Once this simple setup procedure is complete the devices are ready for deployment. Simply place the devices where measurements are to be made and let them do their work! When the desired measurements have been taken simply connect the units to a PC and use the T&D Recorder for Windows software to download the data. But with the TR-7xU products there is also another way! An outstanding feature of the TR-7xU series of products is the ability to download recorded data directly to an optional RTR-57C Data Collector. Using the USB interface connection, data can be transferred to this handheld unit without having to remove the recording unit from its immediate location. This can save steps and lost recording time in transporting data loggers to and from the PC location and can eliminate the need for duplicate replacement units.

Quick Specs

Data Capacity of Loggers:	16,000 Samples (8,000 per Channel)
Sampling Rate:	1 per second (max) to 1 per hour (min)
Recording Method:	One time or Endless Loop
Calibration:	User adjustable w/ software
Communication Method:	USB (Optional RS-232 Serial)
Temperature Range:	-60 °C to 155 °C w/ Optional Sensor
Humidity Range:	10 to 95% RH
Battery Life:	Approx. 1 year on one AA battery

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