

## Easy USB connection

### TR-7U series

#### Multi-Sensor Support

TR-71U/72U/73U/74U/77U



### TR-7U USB Loggers-Plus Ambient Pressure

Offering a lower cost option for applications that do not require network connectivity, the battery operated TR-7U family of multi-channel data loggers offers outstanding functionality and value in portable data logging of temperature, humidity, ambient pressure, luminance and UV light. These models incorporate the same large, easy to read 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 display can be set for real-time monitoring to show one measurement channel continuously or all 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. 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, graphical display Data Collector.

## Multi-Sensor Support

### VR-71

#### Multi-Sensor Support



### VR-71

#### 2 Channel Voltage | Programmable Units | Adjustment Function

T&D's two-channel voltage logger is a remarkably versatile recording device, offering capabilities not found in other products on the market today. This unit is compact, battery operated, highly portable, yet incorporates a large multi-functional LCD display that shows not only current readings for both channels, but also provides device status information. The VR-71 includes front panel buttons that allow for push-to-start / stop operation, as well as configuration of recording and display parameters. Shipping complete with software, batteries and cables, the VR-71 comes ready to log true readings from an unprecedented variety of sensors.

Logging partial pressure of gas in Parts-Per-Million? Barometric pressure in Pascals? Fluid flow in Liters-Per-Second? No problem for the VR-71. Unprecedented in today's market, the VR-71's LCD includes a 3 character dot matrix units display area that is completely customizable. This device comes with a preset selection to choose from, however with individually settable pixels, this logger can be programmed to display practically any units of measure

Example of Created Dot Matrix Pattern



Example of Created Unit Display



## VLD for Windows

### VLD-5/5W

#### Software



### VLD-5/5W

#### Secure Software for the RTR-5x Series

##### Create and Retain Validated Data Records for 21 CFR Part 11 Compliant Reporting Systems

VLD for Windows is a software solution for companies that need to meet the FDA's 21 CFR Part 11 requirements for tamper proof electronic record keeping. VLD for Windows facilitates the creation of validated data files from downloads that have been gathered from RTR-5x series wireless data loggers using either the RTR-57U or RTR-5W Data Collectors. Logging sessions are downloaded to a PC's hard drive as secure, encrypted files with electronic signature access control. VLD for Windows also maintains a complete record of data base access for audit trail tracking and reporting. The software contains a Secure Administrator Mode that provides for configurable user permissions and an Archive Viewer that shows transaction histories. All data files are tamper proof and will be locked if unauthorized access is attempted. Data logger registration and configurations are permitted only from within the secure software environment. This software is provided in two versions: T&D Recorder VLD for Windows, for use with the RTR-57U, and RTR-5W VLD for Windows, for use with the RTR-5W.

WEB SITE T&D ONLINE

<http://www.tandd.com/>

Product information, FAQ and software update downloads.



### T&D Corporation

817-1 Shimadachi, Matsumoto, Nagano  
Japan 390-0852

Please send your inquiries to:  
E-mail : sales@tandd.com  
Facsimile : (+81) 263-40-3152

Distributor



# Thermo Recorder



- + Temperature + Humidity + Pressure + Voltage
- + Pulse + Event + Moisture



T&D Corporation

# Wireless

## > RTR-5 Series

### Data Loggers

RTR-51/51A RTR-52/52A



RTR-52Pt RTR-53/53A



RVR-52A



### Communication & Collection

RTR-50 RTR-57U



RTR-5W



## > RTR-6 Series

### Core Temperature Loggers

RTR-61



The RTR-5 Series features loggers with ruggedized designs for use in wet or condensing environments. Physical device retrieval is costly, inconvenient or impractical. These devices are ideal for data recording during storage and all stages of processing, cooling and freezing of foods and pharmaceuticals. Retrieval is possible with the compact hand held Data Collector, or in the lab, plant or factory with the USB connected Data Collector for rapid, wireless data retrieval. Use the LAN connected Data Collector to make data available from any location. The RTR-5 can be configured to almost any physical requirement with the wireless Repeater. These self-contained units can offer the only practical way to collect data from locations that are in motion or are physically inaccessible.

### RTR-5 Series Wireless Data Loggers

**Wireless | Battery Operated | Water Resistant | Temperatures from -200 to +600°C**

The RTR-51/51A, with internal sensor, can measure and record ambient temperature. The RTR-52/52A, with an external sensor, is able to measure and record in a range of temperatures with industry standard 3-wire Pt100 sensors, and can measure and record temperature. The RTR-53/53A with its standard temperature/humidity sensor is able to simultaneously measure temperature within a range of 0 to 55°C and humidity within a range of 10 to 95% RH. The RTR-53/53A can measure from 0 to 6.5V, 4-20 mA currents, count pulses up to 30 Hz, time stamp events and has a pre-heat function provides sensor excitation voltage or can be used to synchronize data.

### RTR-5 Communication & Collection

T&D's RTR-5 Series includes three uniquely featured wireless Data Collectors and Repeaters. Each can be configured to almost any requirement. Each Data Collector can establish a connection to download data from any of the family's loggers. The daisy-chainable repeater can be used in any physical situation.

### Wireless Base Station and Repeater RTR-50

The RTR-50 wireless base station connects to a PC through a standard USB connection. It can support up to 250 loggers each. Advanced features for this unit include automatic data collection, warning e-mails and text messages to cell phones. Unprecedented features include a software selectable repeater mode. As a battery powered repeater, it can be used anywhere. Each repeater can extend the communication range to locations that are difficult to access.

or anywhere that portability or difficulty of access is a factor. The RTR-50 can be used for uploading to a PC via a USB connection. The integrated LCD allows for easy viewing of data.

### Network Connected RTR-5W

The RTR-5W is a LAN connected base station that can be used in any fixed area environments. This device comes equipped with a standard web browser interface and can be accessed through a standard web browser by any computer. It can be set to automatically originate e-mails if pre-programmed limits are exceeded.

### RTR-61 Series Wireless Core Temperature

**Time | Date | Temperature | Operator ID**

The RTR-61 is a handheld thermometer and temperature recorder for solids, gases, liquids and liquids using a penetration type probe. A single probe can measure temperature, but also the time, date, operator & item ID's. The RTR-61 has a measurement range of -25 to +235°C and is suitable for use in any environment. Even operator instructions sent from the supervisor are displayed on the screen. It can store up to 1,800 data readings before downloading to a PC. The RTR-61 can be attached either directly to the unit or to a handheld Data Collector.

### Wireless Monitoring & Download

Readings stored in the RTR-61 are downloaded via wireless connection to T&D's RTR-50 Data Collector and connects directly to a PC. The RTR-5W Data Collector and has all of that unit's network capabilities. The RTR-50's as daisy-chainable repeaters for extended range. The RTR-61SK even allows for remote management and data collection.

### Automatic Temperature Stabilization

The RTR-61 incorporates a temperature stabilization feature. It will not record until it has reached a final, steady state value. This prevents operator error and ensures accurate readings.

# Waterproof

## > TR-5S Series

### Data Loggers

TR-51S TR-52S



## > TR-57U

### Graphical Data Shuttle



## > TR-50U

### USB Cradle



### TR-5S Series Data Loggers

**Portable | Water Resistant | Visible Alarm**

### TR-57U Graphical Data Shuttle

**Collect the Data - Not the Logger**

### TR-50U USB Cradle

**High Speed Data Downloading**

# Web Enabled

## > TR-7W Series

### Network Connected

TR-71W



TR-72W



## > WDR-3

### Data Recording



### LAN Interface | Internet Ready

### TR-7W Network Connected Data Loggers

### WDR-3

**Web Data Recording**



- Monitor and Record Analog Voltages and Digital Signals
- View and Download over a LAN or the Internet
- E-mail Warnings when Limits are Exceeded