

# Portable Data Collector

## RTR-500DC Features and Specs

Data Transfer  
USB

Data Monitoring  
LCD Display

Warning Monitoring  
Set Limit Exceeded  
Sensor Error

Warning Notification  
Internal Buzzer  
LCD Display

This is our wireless handy portable data collector. It can be used to collect data from data loggers and monitor current readings via wireless communication. The LCD screen allows for instant viewing of collected data. It can also be used to make recording settings such as "Recording Interval" and "Recording Start".

① Data Collection

② Monitoring

③ USB Communication

**① Check Data on the Spot**

You can check the collected data in graph form right from the collector. It is also possible to remotely make recording start and interval settings via wireless communication.

**② Monitoring and Warning Functions**

At a set interval the RTR 500DC communicates with data loggers and gathers current readings and status of loggers. Also if a set upper or lower limit has been exceeded the icon will flash and a buzzer will sound.

**③ USB Data Transfer**

The data can be easily transferred to a PC for further analysis, storing and so on.

### Store Data from 15 Units at Full Capacity

It can store data downloaded from up to 15 units (RTR501B / 502B / 503B / 505B / 507B, RTR-501 / 502 / 503 / 505 / 507S) at full data capacity.

### Operates on Just Two Batteries

It operates on just 2 AAA Alkaline Batteries. It can also be connected to an external power source.

### Easily Manage Up to 7 Groups x 32 Loggers

In each group it is possible to manage up to 32 separate data loggers (remote units), and up to 15 repeaters can be added to each group.

\* For RTR505B, RTR-505, RTR-574, and RTR-576, registration of one unit will be counted as two units.

### Share Info with Multiple RTR-500DC Collectors

It is easy to share data logger registration info between data collectors and the "Visitor Entry" function enables any RTR-500DC unit to accept "visitors" or Remote Units which have been previously registered to another collector.

### Easy One-Hand Operation

You can select all menus and items using the operation buttons and dial.

### Use with Newer Models

Being compatible with newer RTR500B series models makes it easy to use with a mix of new and old.

\* There are some items and functions that may not be compatible.

## RTR-500DC Specifications

<b>RTR-500DC</b>	
Compatible Devices	Remote Units: RTR501B / 502B / 503B / 505B / 507B RTR-501 / 502 / 503 / 507S / 574 / 576 / 505-TC / 505-Pt / 505-V / 505-mA / 505-P (Including L Type and S Type) Repeaters: RTR500BC, RTR-500
Maximum Number of Registrations	Remote Units: 32 units (*1) x 7 groups Repeaters: 15 units x 7 groups
Storage Capacity	When downloading from units filled to logging capacity: 15 units of RTR501B / 502B / 503B / 505B / 507B, RTR-501 / 502 / 503 / 505 / 507S 7 units of RTR-574 10 units of RTR-576 When downloading from units of any type containing small amounts of data, it can store and manage up to 250 download sessions.
Communication Interfaces	Short Range Wireless Communication For US: Frequency Range: 902 to 928MHz RF Power: 7mW Transmission Range: About 150 meters (500 ft) if unobstructed and direct For EU: Frequency Range: 869.7 to 870MHz RF Power: 5mW Transmission Range: About 150 meters if unobstructed and direct USB 2.0 (Mini-B connector) Optical Communication (proprietary protocol) Serial Communication (*2) (*3)
Communication Time	Data Download Time from Remote Unit (for 16,000 readings) • Via wireless communication: About 2 min. The same amount of time will be necessary for each Repeater. • Via optical communication: About 3 min. • Via serial communication: About 22 sec.
Power	AAA Alkaline Battery LR03 x 2, AAA Ni-MH Battery x 2, AC Adaptor AD-06A1 or AD-06C1, USB bus power
Battery Life (*4)	Expected battery life with 2 AAA alkaline batteries: • Monitoring Current Readings and Remote Unit Status: 96 hours of continuous use (For communication without Repeaters at 60 second intervals) • Monitoring Radio Waves: 32 hours of continuous use • Downloading Data via Wireless Communication: 730 consecutive sessions (When downloading RTR501B at full logging capacity, without Repeaters, with LCD backlight Off)
Dimensions	H 125 mm x W 58 mm x D 26.3 mm (excluding antenna) Antenna Length: 109 mm
Weight	Approx. 105 g
Operating Environment	Temperature: 0 to 50 °C Humidity: 90%RH or less (no condensation)
Included Items	AAA Alkaline Battery LR03 x 2, USB Mini-B Cable US-15C, Manual (Warranty Included)

\*1: For RTR505B and RTR-505/574/576 units, registration of one unit will be counted as two units.

\*2: For communication with the RTR-574 and RTR-576 (Note: Optional serial communication cable TR-6C10 is required.)

\*3: Customers wishing to write their own software, please contact your local distributor for the serial communications protocol specifications. (Note: Optional serial communication cable TR-07C is also required.)

\*4: Battery life in the table above is for two AAA Alkaline type batteries, and varies depending upon multiple factors including ambient temperature, radio environment, frequency of communication, and battery performance. All estimates are based on operations carried out with a new battery and are in no way a guarantee of actual battery life.

The specifications listed above are subject to change without notice.