

Wireless Base Station

RTR500BC Features and Specs

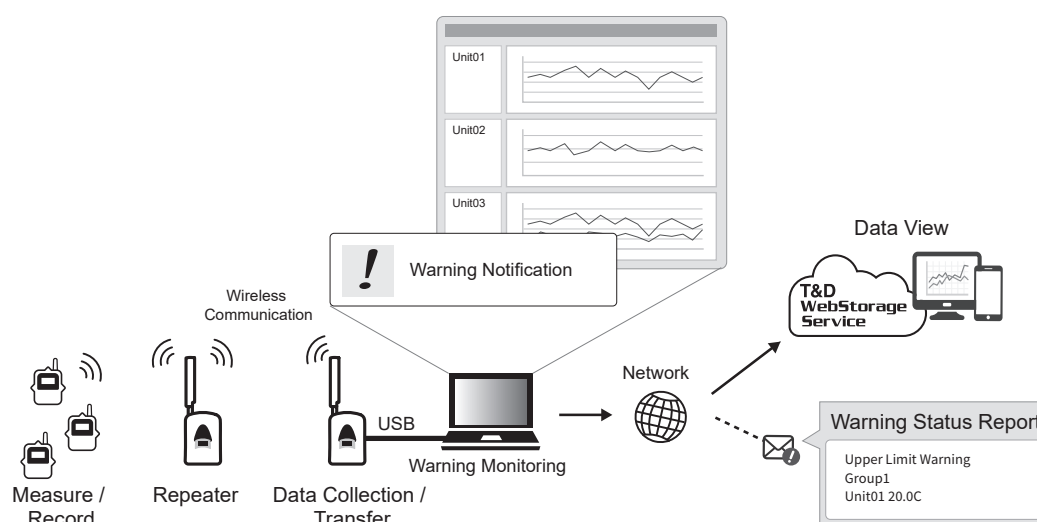
Data Transfer
USB

Data Monitoring
T&D WebStorage Service,
Local PC

Warnings
Set Limit Exceeded, Sensor Error
Communication Error etc...

Warning Notification
E-mail, Software

RTR500BC is a wireless data collector (Base Unit) that collects recorded data from data loggers (Remote Units) using short range wireless communication. Connected to a PC via USB and with our Windows software, it enables data download and transfer, real-time monitoring as well as monitoring for warnings. It can also be used as a wireless repeater for our RTR500B/RTR-500 Series.



Auto-Download of Recorded Data

By using the software running on a PC, it is possible to automatically download recorded data from loggers to a PC at a set interval. Downloaded data can then be automatically uploaded to our free cloud service or your FTP server.

Monitoring Function

The current readings and trend graph displayed on a PC allows for real-time monitoring. If the set limit for each Remote Unit is exceeded, a warning will be notified on the PC screen as well as via email. As recipients of warning, up to four email addresses can be set.

Easily Manage Up to 20 Groups x 32 Loggers

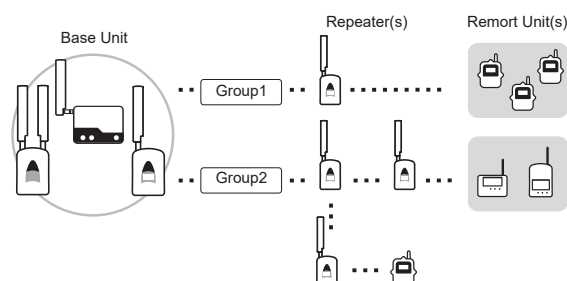
In each group it is possible to manage up to 32 data loggers (remote units), and up to 30 repeaters can be added to each group.

* Note: For RTR-574 and 576, registration of one unit will be counted as two units.

Communication DLL specs for the RTR500B Series, as well as, file formats for Current Readings Files and Recorded Data Files (XML) are available free of charge to our customers. These allow you to integrate our products into your own applications and systems.

Use a Repeater to Expand Communication Range

The wireless communication range between a base and a remote unit, if unobstructed and direct, is about 150 meters (500 ft). This range can be extended by using the RTR500BC as a repeater.



Whilst every effort has been made to ensure the accuracy of this specification, we cannot accept responsibility for damage, injury, loss or expense from errors or omissions. In the interest of technical improvement, this specification may be altered without notice.

For pricing or any further information, please contact Omni Instruments Ltd.

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RTR500BC Specifications

	RTR500BC
Compatible Devices	Remote Units: RTR500B Series (RTR501B / 502B / 503B / 505B / 507B) Including L Type RTR-500 Series (RTR-574 / 576) Including S Type RTR-600 Series (RTR-602S / 602L / 602ES / 602EL) (*1) Repeaters: RTR500BC Other devices (*2)
Maximum Number of Registrations	Remote Units: 32 units (*3) x 20 groups Repeaters: 30 units x 20 groups
Communication Interfaces (*4)	Short Range Wireless Communication US Model: Frequency Range: 902 to 928 MHz RF Power: 7 mW Transmission Range: About 150 meters (500 ft) if unobstructed and direct EU Model: Frequency Range: 869.7 to 870 MHz RF Power: 5 mW Transmission Range: About 150 meters if unobstructed and direct Bluetooth 4.2 (Bluetooth Low Energy) (*5) USB 2.0 (Mini-B connector) Optical Communication (proprietary protocol) Serial Communication (*6)
Communication Time	Data Download Time (for 16,000 readings) Via wireless communication: Approx 2 minutes The same amount of time should be added for each Repeater.
Communication Protocol (*7)	SMTP (TLS 1.2 supported), FTP
LCD Display Items	Configuration Modes, Communication Status, Battery Life Warning, etc.
Power (*8)	USB Bus Power, AA Alkaline Battery LR6 x 2, AC Adaptor (AD-06A1 or AD-06C1), External Battery (DC 9-38V) with the Connection Adaptor (BC-0204)
Battery Life (*9)	As a Repeater: Approx 6 months (When downloading full data once a day from one Remote Unit with one Repeater)
Dimension	H 96 mm x W 65.8 mm x D 24.4 mm (excluding antenna) Antenna Length: 135 mm
Weight	Approx. 80 g
Operating Environment	Temperature: -10 to 60 °C (when using AA batteries) / -30 to 60 °C (when using AC adaptor) Humidity: 90 %RH or less (no condensation)
Included Items	Antenna CSR-0011, USB Mini-B Cable US-15C, Manual Set (Warranty Included)

- *1: Customers wishing to use the RTR500BC as a Base Unit in conjunction with the RTR-600 series devices, please contact your local distributor for the communications protocol specifications to write your own software.
- *2: Also compatible with the following discontinued products: RTR-501/502/503/507S/505, RTR-500, and RTR-601-110/130/E10/E30. Please refer to "Compatibility Info for RTR500B and RTR-500 Series" (<https://tannd.com/information/compatible-rtr500b-loggers.html>).
- *3: For RTR-574 and RTR-576, registration of one unit will be counted as two units.
- *4: There are US models and EU models in the RTR500B Series. They cannot be used together because they have different wireless specifications.
- *5: Bluetooth is available when using the RTR500BW or RTR500BM as a Base Unit and making device settings in the mobile app (T&D 500B Utility).
- *6: 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).
- *7: Client Function. The protocol is implemented in the software application (RTR500BC for Windows).
- *8: When using the RTR500BC as a Base Unit, it works on the USB bus power and it is not necessary to use another power source.
- *9: Battery life depends on several factors, including ambient temperature, radio environment, frequency of communication, and quality of the battery being used. 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.

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