

WTCM Receiver



Wireless Receiver with Ethernet connection

The *WTMC* is a **radio receiver** that can acquire data from the TempStick Radio, the wireless transmitter with temperature sensor. The received data are sent via **Ethernet** to the PC where the management software (like the FridgeLog) is installed per storing. The *WTMC* has a memory too where it can save some data, in case the Ethernet connection is down for a while. Each *WTMC* can receive up to 32 sensor-transmitter: to each one of them an IP address is assigned and many *WTMCs* can communicate on the same network, according to your needs. The WTMC is provided with its power supply. The *WTMC* is configured through the Ethernet connection with the *WTLS2FL* software, provided with the *FridgeLog*.



Pro

- Ethernet and Wi-Fi connection to cover long distances and manage more receiver with one PC;

- built-in backup memory if the Ethernet is down;

- possibility to configure it via Ethernet;
- pair the sensors you want to receive with each WTMC;

- possibility to use with the **TAS** software module for alarms (email and SMS).

Applications:

- stock houses and warehouses monitoring;
- fridges and fridge cells monitoring;
- environment monitoring;
- computer rooms control;
- laboratories monitoring;
- HACCP compliance temperature monitoring;
- ISO compliance temperature monitoring.

Management software characteristics:

- the acquired data can be displayed both in graph and table;
- data can be saved in <u>Excel format</u> and then edited and customized;
- the graph allows an <u>easy and quick</u> interpretation of the acquisitions;
- on-line alarms when thresholds are exceeded;
- <u>SMS</u> alarms when thresholds are exceeded.

The system is made up by a series of radio temperature sensors, the *TempStick Radio*, with internal battery, small and easy to install, a receiving unit, the *WTMC* (Wireless Temperature Master Collector, in the picture above) that manages all the data from the sensors, and a data management and storing software, the *FridgeLog* for continuous monitoring.

Technical Features



WTMC Receiver	
Size	13 X 13 X 3,5 cm
Display	Internal display for configuration by the operator
Acquisition rate	From 1 every 5 seconds up, steps of 1 second
Power source	External power supply AC 9-12 V.
Connections	 Radio connection for communication with the TempStick Radio Ethernet connection for communication with the P
N. of sensors	Receives up to 32 sensors
Radio type	433 MHz
Radio transmission range	250 meters in open space; in closed environment depends on many variables and obstacles
Accessories	Power supply included; possibility to connect up to 4 Intelligent Sensors



TempStick [®] Radio		
Size	6,5 X 5 X 4,5 cm	
Electronics Temperature Range	-20 °C ÷ +60 °C	
Sensor Temperature Range	-40 °C ÷ +90 °C *	
Resolution	0,03 °C	
Accuracy	±0,25 °C with calibration certificate Standard calibration certificate: -10°C, 0°C, 10°C, 25°C, 50°C (other temperatures available on demand) ±1 °C without calibration certificate **	
N° acquisitions	Acquisitions storage on PC Hard Drive	
Acquisition interval	From 1 reading every 3 seconds to 1 reading every 255 minutes	
Battery	Factory replaceable	
Autonomy	More than 500.000 acquisitions/transmissions - more than 10 years with standard use (24 acquisitions per day)	
Mission length	Depending on the Hard Drive free memory	
Protection degree	IP68 probe; IP67 case; IP40 connectors	



FridgeLog Software	
Operating Systems	Windows 2000, XP, Vista
Data management	Database organized on branches, fridges and data loggers (each one with its unique serial number)
Protections	Multi-user and multi-level software (administrator and standard users)
Data display	Graph (with zoom) and table (exportable into Excel) and report of all the data printing
Parameters	Temperature thresholds of correct conservation temperature can be set
МКТ	Mean Kinetic Temperature formula implementation for quick evaluation of the recorded data
Quality management	Non Conformities and linked Corrective Actions filling, according to ISO standards
Data sharing	Data can be easily shared with other users and branches and the administrator of the central network
Languages	English, Italian



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UNI EN ISO 9001:2008 certified for Firmware and Software development