

CY02-WS Wireless Data Logger is suitable for the measurement of temperature and relative humidity in a variety of responsible environments. Applicable objects include compliance verification and real-time monitoring of warehouses, production areas, clean rooms, laboratories, incubators, refrigerators, refrigerators and freezers.

Product features

- Flow probe design, quick response to temperature point change.
- High precision temperature and humidity probe.
- 50000 groups of offline data cache.
- The battery life of the temperature and humidity probe is 36 months.
- Standard AAA lithium-iron batteries are used.
- IP68 waterproof design.
- Its working temperature is -40 ~ 60 °C, and it can be directly placed in the cold storage.
- Rich installation methods: with magnetic wall hanging, bundling and gluing.

Unique BR-Link ad hoc wireless communication

The so-called ad hoc network technology means that the wireless data logger will automatically search and connect to the gateway or signal amplifier with the best signal nearby without configuration.

Signal extension technology: When the data logger is installed in some places where the gateway signal can not reach, BR-Link's unique signal relay function can build a signal relay bridge between the data logger and the gateway to cover the dead corner of the signal. A gateway or relay equipment will transmit signals up to 100 meters in the room and 2000 meters outdoors without shelter. Wireless communications are encrypted to ensure data integrity and security.



Integrity and continuity of data

The CY02 wireless data logger is equipped with 50,000 sets of data cache. In case of failure to connect to the gateway, the data will be temporarily stored in the cache, and then transmitted to the server when the network is restored.

After the data is uploaded to the server, the data backup is still kept in the data logger. If necessary, the computer can be connected to export the corresponding time period data through the USB special tool (account encryption verification is required), and the latest five groups of data are kept.

AAA lithium-iron battery design, wide temperature range, low cost of battery replacement.

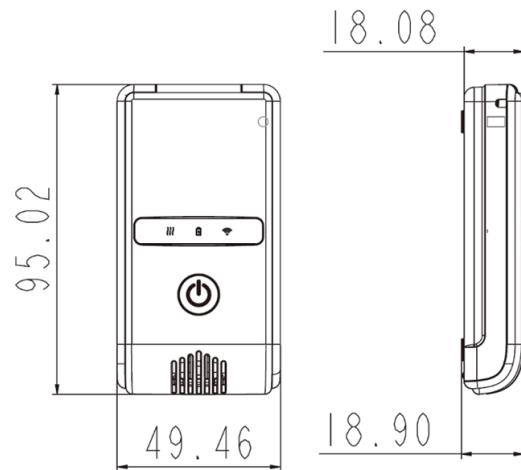
High sensitivity probe design

High-throughput probe design while achieving overall IP68 water resistance. The design of the circulation probe ensures the circulation of the air contacted by the probe and the maximum possible response to the rapid temperature change. It is especially suitable for the application scenarios with rapid change, such as the verification of opening and closing the box, the verification of the operation of the oscillation box, etc. The fastest response time of temperature conversion can reach 2 seconds, which ensures the authenticity of verification data to the greatest extent.

Technical specifications

Data transmission

Transport protocol	BR-Link wireless ad hoc network transmission
Wireless output power	≤13db (≤20mW)
Open wireless transmission distances	2000m
Typical indoor transmission distances	100m
Antenna	Built-in
Frequency band	470Mhz



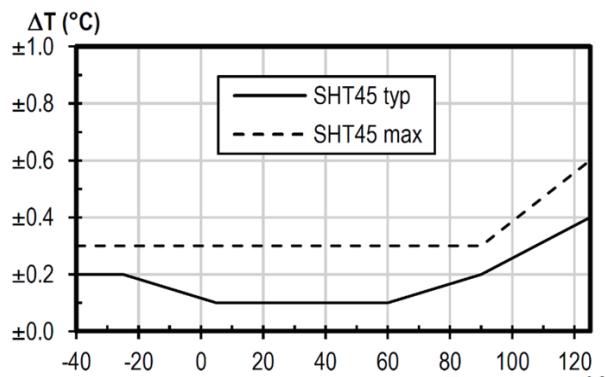
Data acquisition and storage

Cache size	50,000 sets
Buffer type	NOR Flash (NAND Flash)
Continuation order	FIFO/FILO configurable
Sampling rate	1 second to 24 hours
Upload frequency	1 minute to 24 hours

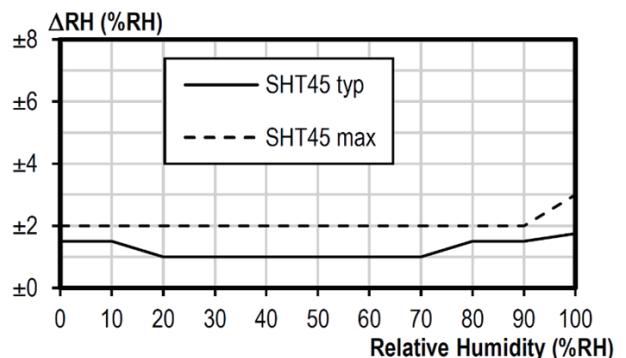
Environmental parameters

Storage temperature range	-40~60°C
Operating Temperature Range (Alkaline)	0~60°C
Operating temperature range (lithium iron battery)	-40~60°C (Standard configuration)
IP protection class	IP68
Operating humidity	0-100% non-condensing

CY02-WS-H Temperature error



CY02-WS-H Humidity error



Other specifications

Battery	Two AAA lithium iron batteries
Size	75.99 x 167.56 x 37mm
Typical standby time	24-36 months
Weight (with 2 X AAA Li-Iron batteries)	73g
Installation method	Magnetic hook, self-adhesive hook