CY04 Data Logger

CY04 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

- Large screen displays data for easy access.
- 50000 groups of offline data cache.
- The battery life of the temperature and humidity probe is 24 months.
- Uses standard three CR2450HR batteries.
- IP68 waterproof design (built-in sensor).
- Its working temperature is -40 ~ 60 ℃, 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 indoors and 2000 meters outdoors without shelter. Wireless communications are encrypted to ensure data integrity and security.

Integrity and continuity of data

The CY04 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 recorder, and the latest 50,000 sets of data are kept.

Standard CR2450 battery design with wide temperature range and low battery replacement cost.

IP68 waterproof

High-throughput probe design with overall IP68 water resistance. Nsures the stability of long-term use in a high-humidity environment.

Optional external probe model

External probe models support temperature and humidity probes and wide temperature thermocouple probes.

Large screen display

The large screen display is convenient for viewing real-time data, battery power, signal strength and other information, which is convenient for the use and maintenance of the product.

Technical specifications

Wireless 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

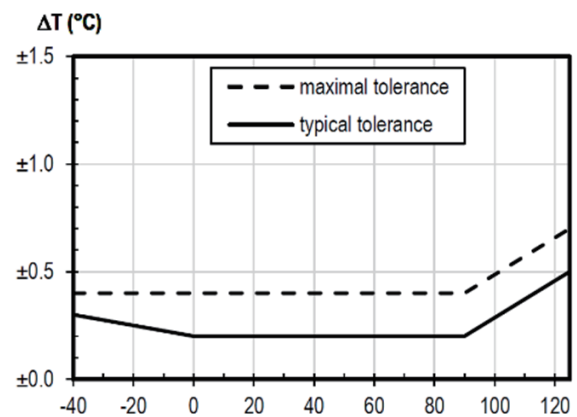## Environmental parameters

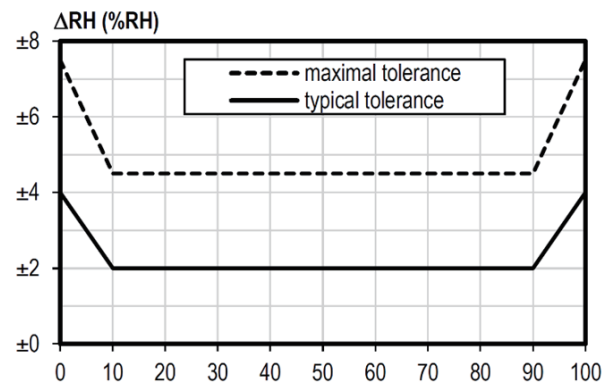|	
Storage temperature range	-40~60℃
Operating Temperature Range (Alkaline)	0~60℃
Operating temperature range (lithium iron battery)	-40~60℃ (Standard configuration)
IP protection class	IP68
Operating humidity	0-100% non-condensing

Other specifications

Battery	Three CR2450HR
Size	115mm*65.5mm*17.5mm
Typical standby time	24 months
Weight (with 2 X AAA Li-Iron batteries)	120g
Installation method	Magnetic attraction, hook

CY04 Temperature error

CY04 Humidity error

Specification column mark

CY04-E	Built-in temperature and humidity sensor
CY04-WS	External temperature and humidity sensor
CY04-DW	External thermocouple sensor

-200~1500℃

Accuracy -40 ~ 80 ± 1 ℃ Others ± 2 ℃

The external standard line is 2 meters long, and the length can be customized as required.