Biorong
Sense the Future
Innovate Today SFIT

Ciplelink Environmental Continuous Monitoring System V5.0

Ciplelink Environmental Continuous Monitoring System V5.0 designed for critical environment and equipment monitoring such as boxes, data integrity and compliance are guaranteed through audit trails, department and account authority control, data encryption, and authorization levels that meet regulatory requirements, as well as electronic signatures.

Product features

- System for continuous monitoring of various environmental and system parameters: temperature, humidity, gas concentration, differential pressure, various system data and other parameters.
- Real-time alarm for overrun data, support WeChat, SMS, telephone, email, audible and visual alarm, web pop-up window, etc.
- Flexible alert policies: Threshold alerts, number of alert notifications, and multi-level notification logic can be scheduled to accommodate shift changes and ensure alert reception.
- A variety of mechanisms to ensure data integrity, collection and offline cache of gateways at all levels, data backup, dual hot standby, load balancing, etc.

Wireless BR-Link Ad Hoc Network Wireless Communication and Various Wired Protocol Hybrid System

The system is designed to access BR-Link wireless devices, which are distributed and transmitted to the system according to the verification requirements. There is no limit to the number of accesses, which can be collected locally or in the cloud.

Improve the account authority management function

The visible functions and operational permissions of each account can be configured separately, which is convenient for users to quickly master the functions assigned by themselves, and at the same time, the account can be restricted to use the functions beyond its permissions to ensure the data installation of the system.

Relevant compliance of the system to meet the needs of pharmaceutical companies

The system controls the whole life cycle according to the requirements of GAMP5 for software and automation system. Complete verification services are available: control files include URS, BRA, CS, RA, IQ/OQ/PQ, SAT, etc.

Meet FDA 21 CFR Part 11 requirements for electronic records and electronic signatures.
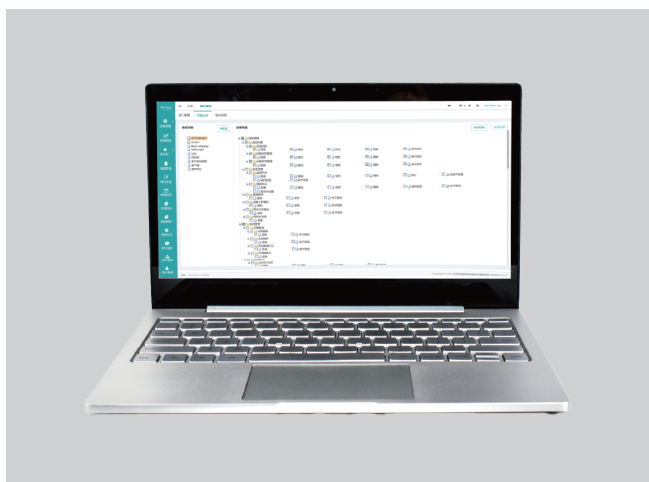
Sustained reliability

The system provides lifelong technical support and software upgrade. With the iteration of relevant regulations and the promulgation of new regulations, the system will be continuously updated to meet the new requirements of the industry.

Integrity and continuity of data

Biorong continuous monitoring system V5.0 supports a variety of data installation strategies, which can implement dual hot standby, data remote backup, and load balancing for large projects. The database adopts the mainstream SQL, and the operating system can use Windows Server, which can run in the virtual machine.

Convenient access

Biorong continuous monitoring system V5.0 is designed with B/S architecture. The cloud platform can be accessed through the web page wherever there is Internet, and the local network can be accessed through the web page in the LAN. It also provides the public number alarm and access of the external network WeChat, and the internal network uses PDA to realize mobile access through WiFi.

Technical specifications

Data acquisition equipment

CY01 wireless acquisition	Space temperature and humidity verification
CY02 Enhanced Wireless Acquisition	Verification and monitoring of space temperature and humidity
CY06 Wireless Data Logger	Common temperature and humidity and PT100 probe
CY08 Wireless Data Logger	Vaisala, Rozonik and other industrial probes, supporting temperature and humidity, carbon dioxide, dew point, hydrogen peroxide, etc.
CD01 over-function collector	RS232/RS485/MODBUS and other third-party equipment data acquisition
WY01	Wireless Data Gateway Internal Implementation Ethernet Fabric Implementation Cloud 4G or Ethernet implementation

Wired transmission scheme

Collector	POE Ethernet Acquisition Series
Third-party device protocol support	BR-Link Wireless, RS232, RS485MODBUS, OPC-UA

Hardware requirements of local industrial control host and central server

Configure requirements in data point	1-20	20-200	Above 200
The CPU is the lowest	Dual-core 2.0 GHz	Quad-core 2.0 GHz	Dual-core 2.0 GHz
Memory	8GB	12GB	16GB
Recommended disk size	2T	4T	8T

Local host or central server software requirement

Operating System	Windows Server 2019 Windows Server 2019 Data Center Edition Windows Server 2016 Windows Server 2016 Data Center Edition Windows Server 2012 R2 (64 bit) Windows 10/11 Enterprise Edition (64 bit)
Database	Microsoft SQL Server 2012 and later
Virtual machine	VMware
Dual hot standby	Support
Load balancing	Support

Other specifications

Collection data type	Temperature, temperature and humidity, dew point temperature, relative humidity, liquid nitrogen level, gas concentration (carbon dioxide, hydrogen peroxide), door opening and closing, motion state, illumination, pressure difference, particle counter, etc. Data types can be added.
Remote alarm notification method	WeChat, short message, telephone, mail, local audible and visual alarm
Alarm support type	Parameter overrun alarm, equipment failure alarm, equipment offline alarm, low battery alarm, etc.
Multi-level alarm	Support
Data Report Export	Manual PDF report (with electronic signature) Automated PDF reports Raw data Excel
Electronic signature	Support
Data analysis	With data plot analysis, mean, standard deviation, mean square deviation, extreme value analysis, thermodynamic equivalent temperature.
Large screen display	Support
Floor plan display	Support
Instrument panel	Support
Audit trail	Support
Measurement management	Support
Department authority and account authority management	Support
Equipment work log	Electronic records
Patrol inspection function	Electronic records

Client requirements

Browser	Google Chrome™ Microsoft Edge™
External network mobile terminal	WeChat the official account
Intranet mobile terminal	PDA