xylem



Wireless temperature & humidity monitoring

EBI 25 wireless data logger system

-ebro- xylem

Online monitoring of temperature, humidity, and other parameters

The EBI 25 system is a wireless data logger system designed for the continuous monitoring of temperature and humidity in production and storage areas. It automatically measures and transmits all readings to a central software, which immediately alerts users if thresholds are exceeded - ensuring that perishable goods are produced and stored under the proper conditions at all times.

Additional parameters and devices can be integrated into the system via Modbus over IP.

Applications

Food Industry

- Continuous monitoring of refrigerated display cases and (deep-freeze) cold storage rooms
- Monitoring of room temperatures and humidity levels in storage facilities

Pharmaceutical / Medical Industry

- Continuous monitoring of temperature-sensitive goods, such as blood plasma or medications
- Temperature monitoring in cold rooms, cleanrooms, and incubators

Advantages

Food Industry

- Compliance with HACCP guidelines
- All data loggers comply with DIN EN 12830
- Always well prepared - with up-to-date reports for every food inspection

Pharmaceutical / Medical Industry

- FDA 21 CFR Part 11 compliance
- Complete documentation for internal and regulatory audits

Continuous measurement

in any environment where food, pharmaceuticals, and medical devices are manufactured and stored.

Preventing product loss

through continuous monitoring of all critical temperature points - 24 hours a day, 365 days a year.

Quick response before it's too late

thanks to a comprehensive and flexible alarm management system (notifications via email or audible alerts).

Automatic documentation

by automatically recording and storing the measured data. This makes it very easy to trace sources of error, and reports for purposes such as audits and inspections are immediately available.

Global access to measurement data

via the Internet - anytime, anywhere, and on any computer with Internet and VPN access. Your measurement data is protected by a password.

Easy handling

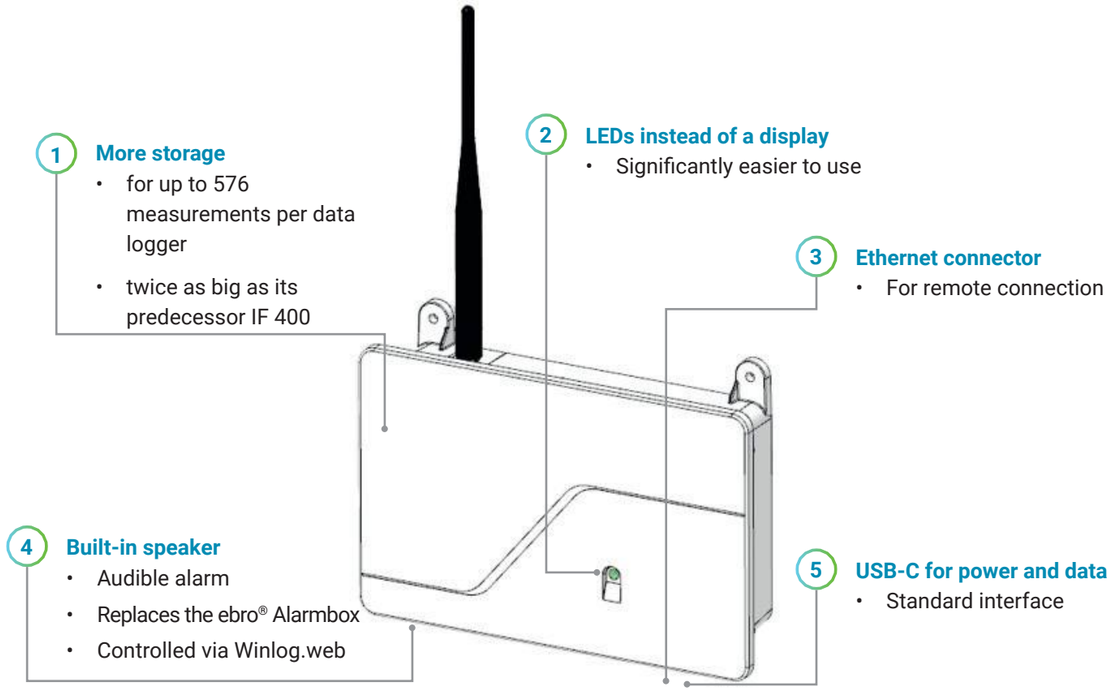
saves time, effort, and energy.

The first step toward accurate measurement data: Visit our website to learn how temperature mapping can help you determine the optimal logger placement. This allows you to identify cold and hot spots early on and keep your monitoring process under perfect control.

Highlights of the IF 426 interface

The new IF 426 interface replaces the IF 400 interface

Equipped with a built-in speaker and more internal memory for the data logger's measurement data, the IF 426 represents a logical evolution of the IF 400. The speaker can be used to sound an audible alarm in the event of a malfunction, such as elevated measured temperatures. The increased memory helps prevent data loss.
Like its predecessor, the IF 426 is controlled via the Winlog.web software. This software has been updated to fully support the new device. The device is backward-compatible, meaning that old data loggers can also communicate with the new IF 426.
This allows existing systems to be expanded without any issues.



1 **More storage**
- for up to 576 measurements per data logger
- twice as big as its predecessor IF 400

2 **LEDs instead of a display**
- Significantly easier to use

3 **Ethernet connector**
- For remote connection

4 **Built-in speaker**
- Audible alarm
- Replaces the ebro® Alarmbox
- Controlled via Winlog.web

5 **USB-C for power and data**
- Standard interface

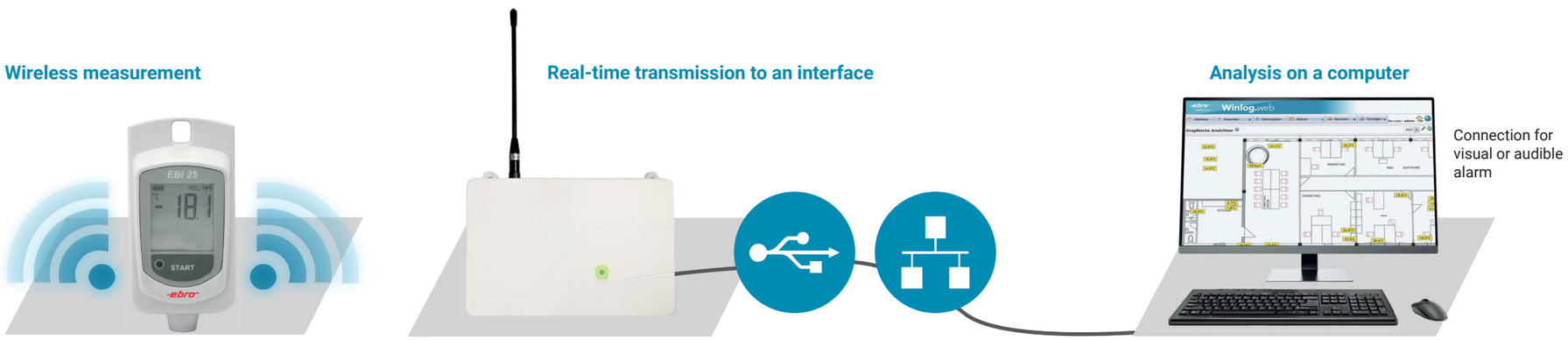
How it works

The innovative EBI 25 system monitors wirelessly and transmits data in real time to an interface (base station) and from there to the desired server or PC.

Wireless measurement

Real-time transmission to an interface

Analysis on a computer



For more information, please contact us at the following phone number:
+49 841 95478-0

EBI 25 series data loggers

- High-precision measurement of temperature and humidity (depending on the logger type)
- Extremely long range of up to 500 m in open terrain
- Long battery life
- Easy installation

Base station: Interface IF 426

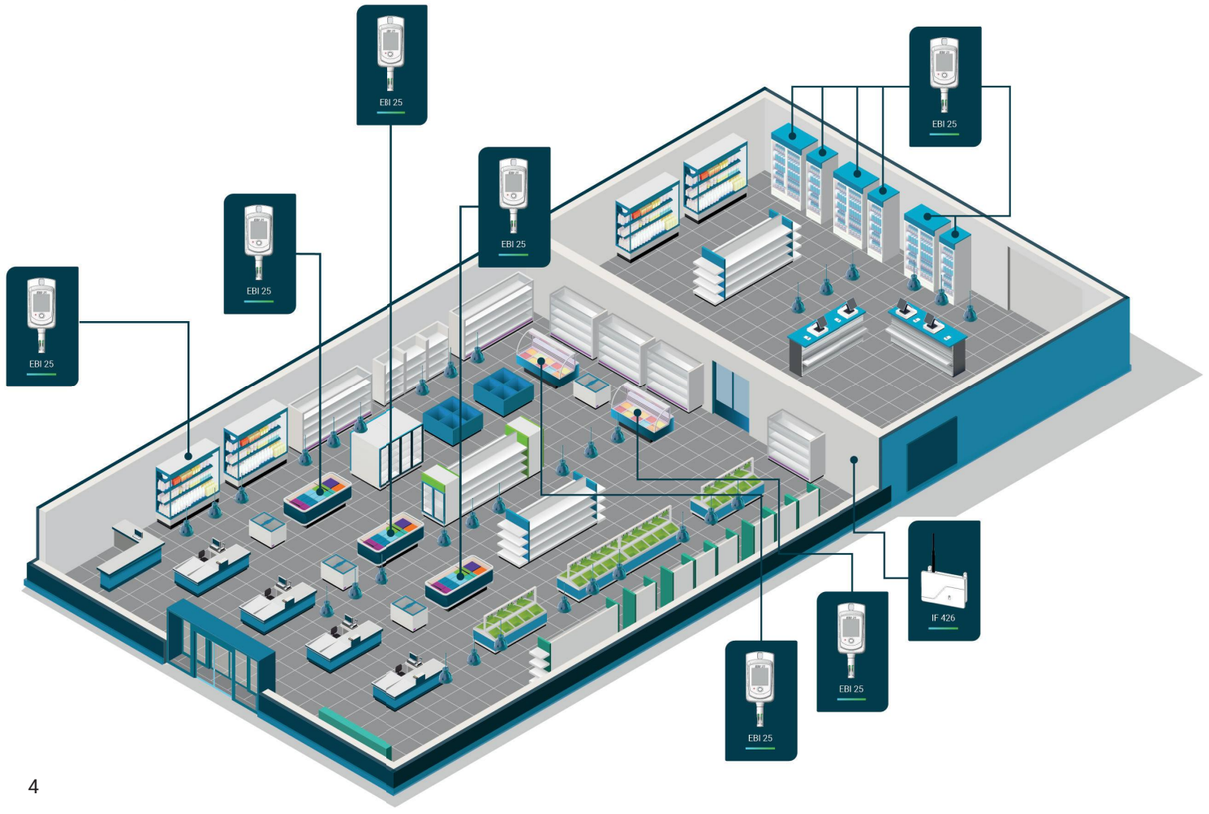
- Collects and stores data from all connected EBI 25 loggers
- Supports connection of up to 50 loggers per interface
- Direct connection of any number of interfaces to a PC or network
- Alarm notifications available

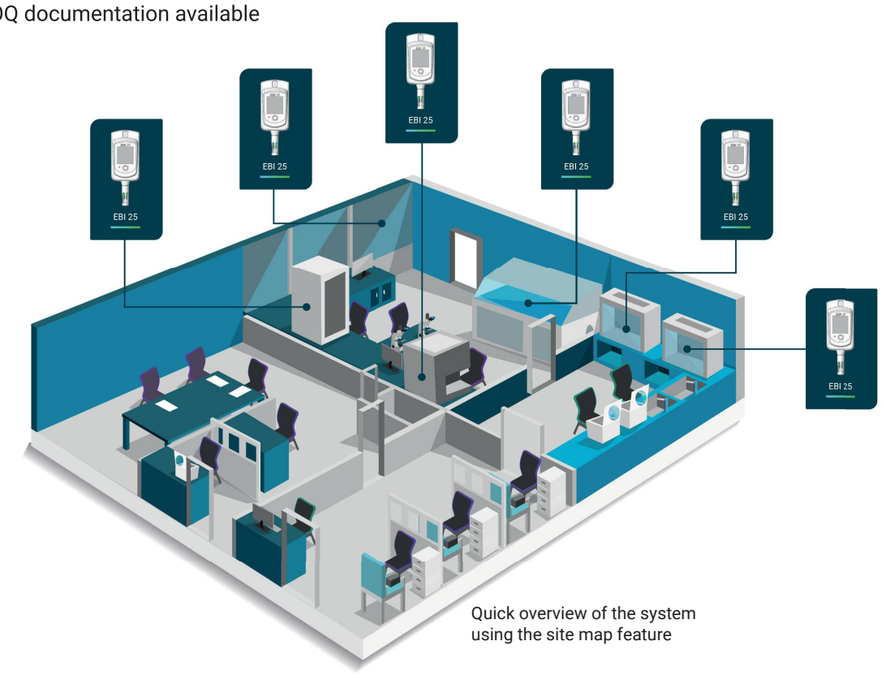
Reporting software: Sending emails with Winlog.web

For more information

Professional version for multiple users

- Web-based server solution: Measurement data can be viewed on all PCs and smartphones connected to the network
- Highly flexible and comprehensive alarm management: Alarm notifications triggered by defined events; alarm notifications via email; visual and audible alarms via the user interface
- Connection of the IF 426 interface via USB and Ethernet
- FDA 21 CFR Part 11 compliance
- Management of large data volumes
- IQ/OQ documentation available





Quick overview of the system using the site map feature

Accessories



AG 152 wall mount for EBI 25



AL 116 external antenna for the EBI IF 426 interface to increase transmission power



AL 250 protective case for EBI 25 TE and TX



AH 300 stainless steel sintered filter AH 100 PTFE filter

Name	Description	Art.-No.
EBI 25-T	Wireless temperature logger (with internal temperature sensor)	1340-6200
EBI 25-TE	Wireless temperature logger (with external temperature probe)	1340-6201
EBI 25-TH	Wireless temperature logger (with external humidity sensor)	1340-6202
EBI 25-TX	Wireless temperature logger for high and low temperatures (with TPX 25-3 sensor)	1340-6204
TPX 25-3	Replacement temperature probe for EBI 25-TX, 3,000 mm cable, 130 x 5 mm probe	1341-0025
TPX 25-10	Temperature probe for EBI 25-TX, 10,000 mm cable, 130 x 5 mm probe	1341-0028
IF 426	Wireless base station for EBI 25 data loggers	1340-6250
AH 100	PTFE filter for EBI 25-TH	1340-5627
AH 300	Stainless steel sintered filter for EBI 25-TH	1340-5625
AG 152	Wall mount for EBI 25 data loggers	1340-6215
AL 116	External antenna for IF 426	1340-6211
AI 250	Protective case for EBI 25-TE and EBI 25-TX	1248-0250
EB SL-761-5	Spare battery for EBI 25 data loggers	1100-0121
Winlog.web	Web-based analysis software for EBI 25 data loggers	1340-2390

Flexible system - technical specifications

The Winlog.web software supports various communication protocols for integrating third-party devices, such as Modbus/IP and TCP/IP. This enables the system to manage almost any input and output options. Examples of additional input options include devices for measuring differential pressure, CO_2, or speed, as well as door contacts. Examples of output options include alarm lights, sirens, or a permanently installed alarm system. All of these devices are then covered by the software's automatic data acquisition and alarm functions.

Flexible system

Other metrics can be included:

- Pressure
- NH_3
- Many others
- CO_2
- O_2









Technical data

Type	EBI 25-T	EBI 25-TE	EBI 25-TX	EBI 25-TH
Probes	Internal	External	External for very low temperatures	Internal: Temperature External: Humidity
Measurement range: temperature	-30 °C ... +60 °C	-40 °C ... +85 °C	-200 °C ... +199.9 °C	-30 °C ... +60 °C
Measurement range: humidity	–	–	–	10 % rH ... 90 % rH
Accuracy: temperature	±0.5 °C (-20 °C ... +40 °C) ±0.8 °C for the remaining measurement range	±0.5 °C (-20 °C ... +40 °C) ±0.8 °C (-30 °C ... -20 °C and +40 °C ... +60 °C) ±1.5 °C (-40 °C ... -30 °C und +60 °C ... +85 °C)	±2.0 °C (-200 °C ... -100 °C) ±0.5 °C (-100 °C ... -20 °C) ±0.4 °C (-20 °C ... +60 °C) ±0.5 °C (+60 °C ...+199.9 °C)	±0.5 °C (-20 °C ... +40 °C) ±0.8 °C for the remaining measurement range
Accuracy: humidity	–	–	–	±3 %
Resolution: temperature	0.1 °C	0.1 °C	0.1 °C	0.1 °C
Resolution: humidity	–	–	–	0.1 % rH
Memory capacity	288 measurements	288 measurements	288 measurements	576 measurements (288 measurements per channel)
Sensor	NTC	NTC	Pt 1000	NTC and a capacitive humidity sensor
Protection class	IP 67	IP 67	IP 67	IP 20

General technical specifications

Measurement interval	1 min. to 24 hours, adjustable
Radio frequency	868 MHz
Battery	3.6 V lithium (user replaceable)
Battery lifetime	Up to 2 years, depending on transmission rate
Storage temperature	-70 °C ... +85 °C

Xylem |’zīləm|

1) The tissue in plants that brings water upward from the roots;
2) a leading global water technology company.

Xylem (XYL) is a Fortune 500 global water solutions company that empowers customers and communities to build a more water-secure world. Our 23,000 diverse employees delivered combined pro forma revenue of $8.1 billion in 2023, optimizing water and resource management with innovation and expertise.

Join us at www.xylem.com and Let’s Solve Water.

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The information in the current operating instructions is decisive for safe operation.

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