



EBI 25

Temperature always under Control
in Hospitals, Clinical Laboratories and
Pharmaceutical Applications

-ebro-
a xylem brand

EBI 25 Features and Benefits:

- Measurement 24/7** : INSIDE: Freezers, deep freezers, thermochambers, bloodbanks, shakers, incubators, fridges, cold rooms, water bath.
- Data Transmission** : wireless by robust 868 MHz or 821 MHz radio signal
- Transparent Data** : in real time via base station to intranet and internet; on computer and smart phone. Worldwide data access
- Instant Data Alarm** : temperature violations reported immediately by SMS or E-Mail
- Convenient Data Processing** : Ebro Winlog.Web software / web based client/server solution. Automatic recording, logging and reporting. Problems can be easily traced and audit reports are generated automatically.



More than 60 % of medical decisions draw upon the results of in vitro diagnostic tests. These tests need to be stored continuously at defined and low temperatures. EBRO EBI 25-T is inside the fridge and gives immediately alarm if temperature is out range.



The IF 400 Base Station is directly connected to the hospitals intranet via LAN cable. Antenna AL 116 ensures good signal, even so the loggers are placed inside cooling rooms and incubators.



The freezer temperature of - 80°C doesn't allow to keep the EBI 25 inside. An external temperature probe with a longer cable (3 meter) is placed inside the freezer and connected to the EBI 25 TX.



EBI 25-TE
Wireless Logger



EBI 25-T
Wireless Logger



EBI 25-TH
Wireless Logger



EBI IF 400 Base Station



Software Winlog.web

Up to 50 Loggers can be connected to one EBI IF 400 Base Station

Ebro EBI 25-TX at - 20 °C inside a freezer with an external temperature probe.
IP 67 water protection and a huge temperature range of -40°C to +85°C whenever external temperature probes are used makes the EBI 25 TX the most sold in clinical applications.



The EBI 25-TX wireless logger with external temperature probe to ensure temperatures are kept within limits in incubators and shakers.



EBI 25-T with integrated temperature sensor is quite small (95 x 48 x 27 mm) and so it is always possible find a place to put it in. The huge temperature range of - 30 °C ...+ 60°C makes the EBI 25-T the best solution for common cooling applications.





Online Monitoring of Temperature and Humidity



Continuous monitoring

of all areas where pharmaceutical and medical products are produced and stored.

Avoid loss of goods

with the continuous monitoring of all crucial temperature points - 24 hours on 365 days a year.



Quick intervention before it is too late

with a very wide and flexible alarm management (notification via email, SMS or acoustical).



Automatic documentation

through automatic recording, storage, and reporting of the measured data. Problems can easily be traced and audit reports can be generated instantly.

Worldwide access to the measurement data

via internet - at any time, any place and any PC with internet and network access. Security is ensured using a login and password. Instant data info and alarms on your smartphone!



Easy handling

saves time, efforts and labor.



Functionality

The innovative EBI 25 system monitors wirelessly, transmits the 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



EBI 25 series data loggers

- Precise measurement of temperature and humidity (depends on logger type)
- Very long battery lifetime
- Easy installation

Base station: IF 400 interface

- Collects and stores the data of up to 50 connected EBI 25 data loggers
- Stores up to 576 measurements per logger
- Connects directly to a PC or the network
- Audible alarm (with optional alarm box)

USB cable / Ethernet



As soon as a temperature or humidity has exceeded user defined limit,
an alarm is immediately sent via email or SMS.

Evaluation on the PC



Connection for
visual or audible
alarm.



Work place

Measurement management software: Winlog.web

Winlog.web:

Professional version internet and local
network based use

- Web based client/server solution: the measurement data can be evaluated on all PCs and smartphones via the internet or connected to the local network
- Very flexible and wide alarm management: alarm notifications upon user defined conditions, alarm notification via email; visual and audible alarm via the graphical user interface
- Connection of the interface IF 400 via USB and Ethernet
- Management of larger data sets
- IQ / OQ documentation available

Print, Email distribution & SMS



EBI 25: Made for Pharma and Clinical Applications:

- GAMP and GxP compliance
- 21 CFR Part 11 functionality
- Up to date reports generated on-demand for audits and inspections

Technical Data

Type	EBI 25-T	EBI 25-TE	EBI 25-TX	EBI 25-TH
Probes	Internal	External	External for very deep temperatures	Internal: temperature External: humidity
Measurement range: temperature	-30 °C ... +60 °C			
Measurement range: humidity				
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 and +60 °C ... +85 °C)	-200 °C ... +199.9 °C ±2.0 °C (-200 °C ... -100 °C) ±0.5 °C (-100 °C ... -20.1 °C) ±0.4 °C (-20 °C ... +60 °C) ±0.5 °C (+60.1 °C ... +199.9 °C)	-30 °C ... +60 °C 0% rH ... 100% rH ±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
Protection class	IP 67	IP 67	IP 67	IP 20

General technical data

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	-40 °C ... +70 °C



ebro Electronic GmbH

Peringerstr. 10
85055 Ingolstadt, Germany
Tel +49 841 95478-0
Fax +49 841 95478-80
Internet: www.ebro.com
E-Mail: ebro@xylem-inc.com

Xylem Analytics

Hong Kong Office:

2101-2103 Peninsula Tower,
538 Castle Peak Road, Cheung Sha Wan,
Kowloon, Hong Kong
Tel +852-2891 8154
Fax +852-2834 0034

Beijing Office:

18/F, Room 101, Unit 2,
Beijing Economic and Technological Development Zone No.99,
14th Street Branch Chong Huilongsan Technology Park
Tel +86-10-5975 5687
Fax +86-10-5975 5677

India Office:

Level 4, Augusta Point, DLF Golf Course Rd.,
Sec 53, Gurgaon,
Haryana, 122002
Tel +91-124-435 4213
Fax +91-124-435 4001

Middle East Office:

(former : YSI Nanotech Co. Ltd.)
Office 3, Block A, Plot 12, M17, Mussafah Industrial Area
Abu Dhabi, UAE
Tel +971-2-555 1929
Fax +971-2-555 1928