

EBI 25 Wireless Data Logger System

The EBI 25 system for wireless monitoring of temperature, humidity and other measurements assures that perishable goods are produced and stored at the right conditions at all times. Other measurements can be integrated using Modbus over IP.

Benefits:

- Continuous monitoring
- Avoid loss of goods
- Quick intervention before it is too late
- Automatic documentation
- Worldwide access to the measurement data
- Easy handling, user replaceable battery



Embedding of other measurements:

- Pressure
- CO₂
- NH₃
- O₂
- Many others

**EBI 25 data loggers**

- Precise measurement of temperature and humidity (depends on logger type)
- Very large range of up to 500 m in a free field
- Long battery lifetime
- Easy installation

Base station: IF 400 interface

- Collects and stores the data of all connected EBI 25 data loggers
- Connection of up to 50 loggers per interface possible
- Stores up to 576 measurements per logger
- Direct connection of any number of interfaces to a PC or the network
- Audible alarm (with optional alarm box)

Evaluation software:**Winlog.web and Winlog.wave**

Winlog.wave: Basic version for local PC usage.

Winlog.web: Professional version for internet and local network based use.

Please find more information from page 72.

General technical specifications: valid for all EBI 25 data logger types*

Resolution: Temperature	0.1 °C (0.2 °F)
Resolution: Humidity (humidity data loggers only)	0.1% rH
Memory	288 measurement values (per channel)
Sampling rate	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 measurement and transmission rate
Storage temperature	-40 °C ... +85 °C (-40 °F ... +185 °F)
Operating temperature	-30 °C ... +60 °C (-22 °F ... +140 °F)
Measurement mode	Endless measurement
Housing material	ABS
Weight	Approximately 65 g

* Please find the exact technical data of each EBI 25 data logger type on the next pages.

EBI 25-T Wireless Temperature Data Logger with internal temperature sensor



Technical Data

Measurement range	-30 °C ... +60 °C (-22 °F ... +140 °F)
Accuracy	±0.5 °C at -20 °C ... +40 °C (±0.9 °F at -4 °F ... 104 °F) ±0.8 °C (±1.4 °F) for the remaining measurement range
Sensor	NTC
Protection class	IP67
Dimensions (L x W x H)	95 x 48 x 27 mm

Type	Description	Part No.
EBI 25-T	Wireless temperature logger (with internal sensor)	1340-6200

EBI 25-TE Wireless Temperature Data Logger with external probe



Technical Data

Measurement range	-40 °C ... +85 °C (-40 °F ... +185 °F)
Accuracy	±0.5 °C at -20 °C ... +40 °C (±0.9 °F at 4 °F ... 104 °F) ±0.8 °C at -30 °C ... -20 °C / +40 °C ... +60 °C (±1.4 °F at -22 °F ... -4 °F / +104 °F ... +140 °F) ±1.5 °C at -40 °C ... -30 °C / +60 °C ... +85 °C (±2.7 °F at -40 °F ... -22 °F / +140 °F ... +185 °F)
Sensor	NTC
Probe	Ø 3.8 mm, L = 65 mm, with 2 m PUR cable
Protection class	IP 67
Dimensions (L x W x H)	95 x 48 x 27 mm (without probe)

Type	Description	Part No.
EBI 25-TE	Wireless temperature logger (with external probe)	1340-6201

EBI 25-TX Wireless Temperature Data Logger for high and low temperatures



Special probes available upon request.

Technical Data

Measurement range	-200 °C ... +199.9 °C (-328 °F ... +391.8 °F)
Accuracy*	±2 °C (-200 °C ... -100 °C) ±0.5 °C (-100 °C ... -20 °C and +60 °C ... +199.99 °C) ±0.2 °C (-20 °C ... +60 °C)
Probe	Ø 5 mm, L = 50 mm, with 3m PTFE cable
Probe connection	Binder, series 620
Sensor	Pt 1000
Protection class	IP 67
Dimensions (L x W x H)	135 x 48 x 27 mm (without probe)

*Accuracy only applies when using an adjusted probe

Type	Description	Part No.
EBI 25-TX	Temperature data logger (with probe)**	1340-6204
EBI 25-TX	Temperature data logger (without probe)	1340-0025
TPX 25	Pt 1000 probe for EBI 25-TX	1341-0025

** Calibration certificate valid only for logger and probe.

EBI 25-TH Wireless Temperature / Humidity Data Logger with external humidity sensor



Technical Data

Measurement range: Temperature	-30 °C ... +60 °C (-22 °F ... +140 °F)
Measurement range: Humidity	0% rH ... 100% rH
Accuracy: Temperature	±0.5 °C at -20 °C ... +40 °C (±0.9 °F at -4 °F ... 104 °F) ±0.8 °C (±1.4 °F) for the remaining measurement range
Accuracy: Humidity	±3 % rH (10 % ... 90 %)
Sensor	NTC for temperature / capacity humidity sensor
Protection class	IP 20
Dimensions (L x W x H)	124 x 48 x 27 mm (with probe)

Type	Description	Part No.
EBI 25-TH	Wireless temperature / humidity logger	1340-6202
AH 100	PTFE filter for EBI 25-TH	1340-5627
AH 200	Bronze sintered filter for EBI 25-TH	1340-5626
AH 300	Stainless steel sintered filter for EBI 25-TH	1340-5625

Sets and Accessories for EBI 25

Please find evaluation software for EBI 25 data loggers starting from page 72.



EBI 25-T-SET Wireless temperature logger set (3 EBI 25-T loggers, evaluation software Winlog.wave, interface, 3 wall mounts)



EBI 25-TE-SET Wireless temperature logger set (3 EBI 25-TE loggers, evaluation software Winlog.wave, interface, 3 wall mounts)



EBI IF 400 Interface including antenna



AG 152 Wall mount for EBI 25



Winlog.wave Evaluation software (single-user version)



Winlog.web Evaluation software (web-based server version)



AL 116 external antenna for the interface EBI IF 400 interface for more power, optional

Type	Description	Part No.
EBI 25-T-SET	Wireless temperature logger set (3 EBI 25-T loggers, evaluation software Winlog.wave, interface, 3 wall mounts)	1340-6220
EBI 25-TE-SET	Wireless temperature logger set (3 EBI 25-TE loggers, evaluation software Winlog.wave, interface, 3 wall mounts)	1340-6221
EBI IF 400	Interface incl. antenna	1340-6210
AG 152	Wall mount for EBI 25	1340-6215
Winlog.wave	Software (single-user version)	1340-2391
Winlog.web	Software (web-based version)	1340-2390
AL 116	External antenna for EBI IF 400 for increasing the transmission power	1340-6211