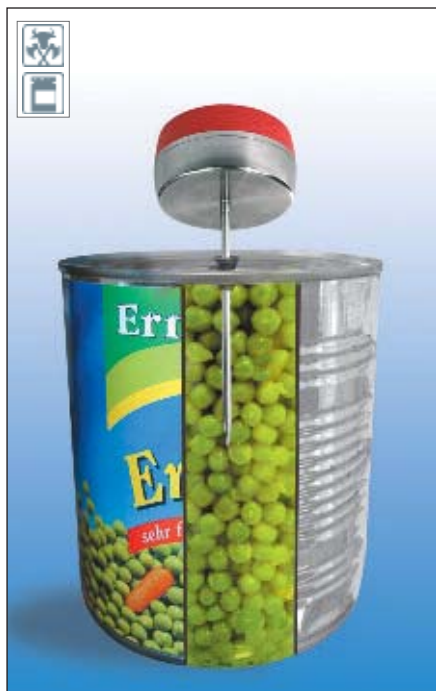


# Temperature Logger for F-Value Measurement

## EBI 10-T230



### Technical Data

Type	EBI 10-T230
Measuring range	-85°C ... +400°C (-160°F ... 752°F)
Accuracy	±0.5°C at -85°C ... -40° (±1.0°F at -160°F ... 752°F) ±0.2°C at -40°C ... +0°C (±0.4°F at -40°F ... 32°F) ±0.1°C at 0°C ... +140°C (±0.2°F at 32°F ... 284°F) ±0.2°C at +140°C ... +150°C (±0.4°F at 284°F ... 302°F) ±0.5°C at +250°C ... 400°C (±1.0°F at 470°F ... 752°F)
Sensor	1 temperature, Pt 1000, external, axial
Operating pressure	up to 20 bar
Resolution	0.025°C (0.045°F)
Sampling rate	adjustable: 250 ms, 500 ms, 1s ... 24h
Memory	100.000 values
Measurement mode	<ul style="list-style-type: none"> <li>- endless mode</li> <li>- measure upon start time</li> <li>- measure upon start temperature</li> <li>- start immediately until end of memory</li> <li>- start / stop time</li> </ul>
Communication	wireless 2.4 GHz/ IEEE 802.15.4
Eyelet	optional, included for all EBI 10 types
Battery	3.6 V, exchangeable by user
Dimensions	B = 46 mm x L = 24 mm*
Weight	70 g*
Housing	stainless steel (V4A) / PEEK
Protection class	IP 68 / NEMA 6

*\* Size and weight are shown for EBI 10 body only*

### EBI 10-T230



### Applications

- Determination of F-value for canned goods
- Monitoring of pasteurization systems
- Temperature process monitoring in production

### Attributes

- Temperature resistant up to +150°C (302°F)
- Completely waterproof
- Factory calibration certificate
- Suitable for food products
- Programming and evaluation with PC
- Battery exchangeable
- High accuracy
- Different models available
- Data transfer in real-time through radio technology possible

### Comments

Accessories see page 40.

## Accessories for EBI 10 and EBI 11

### Accessories



#### Thermo-Silicone protection box AL 100

- protects temperature logger against heat peaks
- protects temperature logger against mechanical damage
- extends life of logger



#### Silicone protection box AL 101

- protects temperature/pressure logger against heat peaks
- protects temperature/pressure against mechanical damage
- extends life of logger



#### EBI TIB

- usable from +150°C ... +400°C (302°F ... 752°F)
- thermal protection of data loggers
- for **EBI 10** R-loggers
- stainless steel, 160 x 160 x 82 mm



#### Interface EBI IF 100 for EBI 10 and EBI 11

- USB connection
- colored LEDs signal the status (program, read out, error)
- incl. antenna **AL 111**
- works with: **Winlog.pro**



#### 4-port interface EBI IF 200 for EBI 10

- USB connection
- colored LEDs signal the status (program, read out, error)
- incl. antenna **AL 111**
- works with: **Winlog.pro**



#### 4-port interface IF 300 for EBI 11

- USB connection
- colored LEDs signal the status (program, read out, error)
- incl. antenna **AL 111**
- works with : **Winlog.pro**



#### Battery exchange set AL 103

Included: lubricated O-Ring, batteries, exchanging instruments, screwdriver, screw, operating instructions



AL 103

#### Battery exchange set AL 113 für EBI 11

Included: Batteries, exchanging instruments, lubricated oils



AL 113

Description	Type	Part No.
Thermo-silicone protection box (for EBI 10 - temperature)	AL 100	1340-6020
Silicone protection box (for EBI 10 - temperature and pressure)	AL 101	1340-6021
Thermal insulation box	EBI TIB	1340-1894
1-port interface for EBI 10 and EBI 11	EBI IF 100	1340-6001
4-port interface for EBI 10	EBI IF 200	1340-6002
4-port interface for EBI 11	EBI IF 300	1340-6003
Antenna, suitable for all interfaces	AL 111	1340-6006
Battery exchange set for EBI 10	AL 103	1100-0117
Battery exchange set for EBI 10 batteries, gaskets, fat) without fig.	AL 104	1100-0118
Battery exchange set for EBI 11	AL 113	1100-0120

## Evaluation Software for all ebro® Data Loggers

### Winlog.basic, Winlog.pro

#### Winlog.basic

Evaluation software for data loggers



## Winlog.basic

#### Winlog.pro

Universal software for ebro® data loggers



## Winlog.pro



#### Winlog.basic

The new free software for programming and evaluating of data loggers. Supports all types of ebro® data loggers.

#### Winlog.basic

Self-explanatory and easy to operate

- User-friendly
- Programming and readout of data loggers
- Graphic and numeric presentation of measured data
- Protocol print out (with printer and computer)
- Scans and enlarges measured data
- Data export into Microsoft® Excel
- 21 CFR Part 11 functions possible (optional)
- Free software



#### Winlog.pro

The new ebro® software supports all ebro® data logger types – even the wireless data logger series EBI 10. With these data loggers, Winlog.pro enables time-saving process monitoring in real-time.

#### Winlog.pro

The universal software for programming and evaluation of ebro® data loggers

- User-friendly
- Automatic evaluation of all measured data
- Graphic and numeric presentation of data progression
- Supports all ebro® data logger types
- Real-time monitoring for loggers with wireless communication
- Formula editor for calculating  $A_0$ -Value,  $F_0$ -Value and theoretic steam temperature
- User-defined functions possible
- Statistics for measured data, i.e. average, standard deviation, MKT, MIN/MAX)
- File and system audit trail
- 21 CFR part 11 conform
- Modules for calibration and adjustment of data loggers

**NEW**

#### System requirements

To enable the software to operate smoothly, your computer must meet the following requirements:

#### Hardware requirements:

Processor speed minimum 1.5 GHz  
Working memory 512 MB  
200 MB free hard disc space  
USB (Universal Serial Bus)

#### Software Requirements:

Operating System Microsoft® Windows® XP or Windows® 2000 or Windows® Vista

Description	Type	Part No.
Evaluation software	Winlog.basic	1340-2375
Universal software	Winlog.pro	1340-2355
Additional Licence for Universal Software Winlog.pro	Winlog.pro - Additional Licence	1340-2356