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Professional Mini Datalogger EBI 11

For Validation, Steam Sterilization, Washer and Disinfector and Process Monitoring

MEDICINE

FOOD

PHARMACEUTICAL

LABORATORY

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2019

The Perfect Solution for Tight Spaces

For temperature and pressure measurements in tight spaces, ebro offers the EBI 11 mini data loggers. Many configurations are available to suit your application, including data loggers with internal sensors, rigid metal probes, bendable metal probes, Luer-Lock connection or threaded connection versions.

The EBI 11 Mini Data Loggers are suitable not only for validation monitoring but can also be used for routine control monitoring.

Applications:

- For tight spaces, e.g. in small steam sterilizers, bottles, cans or bags

- Validation of steam sterilizers and autoclaves

- Validation of washer-disinfectors and washer-disinfectors for endoscopes

- Validation at canning etc.

- Pressure measurements

Bendable metal probe   Rigid metal probe   Integrated (pressure) sensor   Luer-Lock connection   M5 thread connection

Interface

Programming the Data Loggers   **Measurement During the Process**   **Automatic Data Evaluation**

General technical specifications: valid for all EBI 11 logger types*

Accuracy: Temperature	±0.1 °C
Resolution: Temperature	0.01 °C
Accuracy: Pressure (pressure data loggers only)	±15 mbar (0 mbar ... 4000 mbar) ±20 mbar (4000 mbar ... 10000 mbar)
Resolution: Pressure (pressure data loggers only)	1 mbar
Sensor: Temperature	Pt 1000
Sensor: Pressure (pressure data loggers only)	Piezo resistive pressure sensor (temperature compensated)
Sampling rate	1 sec to 24 hours., adjustable
Measurement mode	• Endless measurement • Measurement start / stop time • Measure upon start time • Start immediately until end of memory
Storage temperature	0 °C ... +60 °C (+32 °F ... +140 °F)
Battery	Lithium, 2 x BR1225 A, 3 V, user replaceable
Dimensions (Ø x h)	16.5 mm x 24 mm (without probe) EBI 11-TP110: 16.5 mm x 48 mm EBI 11 Temperature Logger: 16.5 mm x 24 mm (without probe) EBI 11 Temperature / Pressure Logger: 16.5 mm x 48 mm (without connector)
Weight	Approximately 45 g
Housing material	V4A
Protection class	IP 68
Certificate	Factory calibration certificate

* Please find the exact technical data of each EBI 11 logger type on the next pages.

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EBI 11-P100   Mini Temperature / Pressure Data Logger
Integrated sensor

- 1 internal temperature sensor
- 1 internal pressure sensor, piezo resistive, temperature compensated

Technical Data

Measurement range: temperature	0 °C ... +150 °C (+32 °F ... +302 °F)
Measurement range: pressure	1 mbar to 10000 mbar
Data memory	2 x 7,500 measurement values
Sensor: temperature	Pt 1000, internal
Sensor: pressure	Piezo-resistive, internal, temperature compensated
Operating temperature	0 °C ... +150 °C (+32 °F ... +302 °F)

Type	Description	Part No.
EBI 11-P100	Mini Temperature / Pressure Data Logger, 1-channel	1340-6295

EBI 11-P111   Mini Temperature / Pressure Data Logger
Luer-Lock connection

- 1 internal temperature sensor
- 1 internal pressure sensor, piezo resistive, temperature compensated

Technical Data

Measurement range: temperature	0 °C ... +150 °C (+32 °F ... +302 °F)
Measurement range: pressure	1 mbar to 10000 mbar
Data memory	2 x 7,500 measurement values
Sensor: temperature	Pt 1000, internal
Sensor: pressure	Piezo-resistive, internal, temperature compensated
Operating temperature	0 °C ... +150 °C (+32 °F ... +302 °F)

Type	Description	Part No.
EBI 11-P111	Mini Temperature / Pressure Data Logger, 1-channel, Luerlock	1340-6296

EBI 11-TP110   Mini Temperature / Pressure Data Logger
M5 thread connection

- 1 internal temperature sensor
- 1 internal pressure sensor, piezo resistive, temperature compensated

Technical Data

Measurement range: temperature	0 °C ... +150 °C (+32 °F ... +302 °F)
Measurement range: pressure	1 mbar ... 10000 mbar
Data memory	2 x 7,500 measurement values
Sensor: temperature	Pt 1000, internal
Sensor: pressure	Piezo-resistive, internal, temperature compensated
Operating temperature	0 °C ... +150 °C (32 °F ... +302 °F)

Type	Description	Part No.
EBI 11-TP110	Mini Temperature / Pressure Data Logger	1340-6297

EBI 11-T23x   Mini Temperature Data Logger
Rigid metal probe

Technical Data

Measurement range: temperature	-30 °C ... +150 °C (-22 °F ... +302 °F)
Data memory	15,000 measurement values
Operating temperature	-30 °C ... +150 °C (-22 °F ... +302 °F)

Type	Description	Part No.
EBI 11-T230	Mini Temperature Data Logger, 1-channel, ext., L = 20 mm	1340-6290
EBI 11-T231	Mini Temperature Data Logger, 1-channel, ext., L = 50 mm	1340-6292
EBI 11-T233	Mini Temperature Data Logger, 1-channel, ext., L = 100 mm	1340-6293

EBI 11-T230

- 1 exernal temperature sensor, axial, Pt 1000, Ø 3 mm

EBI 11-T235 to T237   Mini Temperature Data Logger
Rigid blunt metal probe

Technical Data

Measurement range: temperature	-30 °C ... +150 °C (-22 °F ... +302 °F)
Data memory	15,000 measurement values
Operating temperature	-30 °C ... +150 °C (-22 °F ... +302 °F)

Type	Description	Part No.
EBI 11-T235	Mini Temperature Data Logger, 1-channel, ext., L = 25 mm, blunt	1340-6270
EBI 11-T236	Mini Temperature Data Logger, 1-channel, ext., L = 80 mm, blunt	1340-6271
EBI 11-T237	Mini Temperature Data Logger, 1-channel, ext., L = 165 mm, blunt	1340-6272

EBI 11-T235

- 1 exernal temperature sensor, axial, Pt 1000, Ø 2 mm

EBI 11-T240   Mini Temperature Data Logger
Bendable metal probe

Technical Data

Measurement range: temperature	-30 °C ... +150 °C (-22 °F ... +302 °F)
Data memory	15.000 measurement values
Operating temperature	-30 °C ... +150 °C (-22 °F ... +302 °F)

Type	Description	Part No.
EBI 11-T240	Mini Temperature Data Logger, 1-channel, ext., L = 250 mm, flexible	1340-6291

- 1 exernal temperature sensor, axial, Pt 1000, bendable, Ø 1.5 mm

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Accessories for EBI 11

Set SI 1100
for EBI 10, EBI 100 and EBI 11

- 2-port Interface IF 100
- Software Winlog.pro
- USB connection
- Colored LEDs signaling programming, readout and incorrect development
- With antenna

Set SI 1110
for EBI 100 and EBI 11

- 2-por t Interface IF 100-1
- Software Winlog.pro
- USB connection
- Colored LEDs signaling programming, readout and incorrect development

SI 1300 Set
for EBI 11

- 4-port Interface IF 300
- Software Winlog.pro
- USB connection
- Colored LED signalling programming, readout and incorrect development

Set SI 2100
for EBI 10, EBI 100 and EBI 11

- 2-port Interface IF 100
- Software Winlog.med
- USB connection
- Colored LEDs signaling programming, readout and incorrect development
- With antenna

SI 3300 Set
for EBI 11

- 4-port Interface IF 300
- Software Winlog.validation
- USB connection
- Colored LED signalling programming, readout and incorrect development

Battery change set AL 113
for EBI 11
Suitable for 3 battery exchanges; contains 6 batteries, 3 O-rings with grease and changing tools.

Battery change set AL 113L
for EBI 11
Suitable for 10 battery exchanges; contains 20 batteries, 10 O-rings with grease and changing tools.

AL 114 can/bag adapter set
for EBI 11-T231 and EBI 11-T233

Bottle adapter set AL 115
for EBI 11-T230

Sealing kit EBI11-Valiset
The set contains 5 seals. Developed for DAC universal and spypach dummy .

Type	Description	Part No.
SI 1100	Set: EBI IF 100 interface and Winlog.pro software	1340-6061
SI 1110	Set: EBI IF 100-1 interface and Winlog.pro software	1340-6561
SI 1300	Set: EBI IF 300 interface and Winlog.pro software	1340-6063
SI 2100	Set: EBI IF 100 interface and Winlog.med sofware	1340-6064
SI 3300	Set: EBI IF 300 interface and Winlog.validation software	1340-6069
AL 113	Battery changing set for EBI 11	1100-0120
AL 113L	Battery changing set for EBI 11	1100-0125
AL 114	Can / bag adapter set for EBI 11-T231 and EBI 11-T233	1340-6298
AL 115	Bottle adapter set for EBI 11-T230	1340-6299
Sealing kit	Sealing kit EBI11-Valiset	1340-0006

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Xylem | ˈzīləm|

1) The tissue in plants that brings water upward from the roots;

2) a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

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