

Complete Validation Sets

Flexible Data Logger System for Thermal Validations

ebro offers a flexible measurement and documentation system for validating many different thermal processes. This reliable system includes easy to use wireless data loggers of the EBI 10 series placed directly in the process and the software Winlog.validation to evaluate the processes.

The sets can individually be expanded or compiled yourself from one or more data loggers (EBI 10 or EBI 11), the appropriate interface and the software Winlog.validation. Talk to us!

Process Validation with Temperature and Pressure Data Loggers across many Applications in:

Medical Sector

- Washer-disinfectors
- Washer-disinfectors for endoscopes
- Bed pan washers
- Steam sterilizers
- Blood banks
- Medicine refrigerators
- Laboratories
- Freezers

Pharmaceutical Industry

- Steam sterilization
- Stability chambers
- Cold storage
- Validation of store houses
- Incubators
- Laboratories
- Freezers

Food Industry

- Retorts
- Pasteurization
- Spiral-cooker / cooler
- Transport facilities
- Freezers
- Refrigerators
- Smoke chambers
- Ovens
- Full water autoclaves

Benefits

- Full automatic and tamper-proof
- Broad range of wireless data loggers for all applications
- Highly flexible temperature wire probes (individually replaceable sensors)
- High accuracy PT 1000 temperature sensors
- High accuracy of up to $\pm 0.1^{\circ}\text{C}$
- German TÜV Industrial Services certified software, conforms with FDA 21 CFR Part 11
- 2-year warranty



The System Conforms with the Following Standards

- FDA 21 CFR Part 11
- ISO 17665
- EN 12830
- ISO 15883
- EN 285 / EN 13060
- DIN 58929

SL 2000 Complete Validation Set for washer-disinfectors



For the validation of washers-disinfectors according to ISO 15883.

The set can individually be expanded or compiled yourself from one or more data loggers (EBI 10 or EBI 11), the appropriate interface and the software Winlog.validation. Talk to us!

The set contains:

- 3 x EBI 10-T441 temperature data loggers
- EBI 10-TP231 temperature / pressure data logger
- EBI IF 200 4-port Interface with USB connection and antenna
- TDS 3 Conductivity tester
- PHX 800 pH tester
- TÜV Industrial Services certified Winlog.validation software
- Aluminium carrying case



Type	Description	Part No.
SL 2000	Validation set for washer-disinfectors	1340-6072

SL 3000 Complete Validation Set for small steam sterilizers



For the validation of small steam sterilizers according to ISO 17665.

The set can individually be expanded or compiled yourself from one or more data loggers (EBI 10 or EBI 11), the appropriate interface and the software Winlog.validation. Talk to us!

The set contains:

- EBI 10-TP453 temperature / pressure data logger with AL 101 silicone protection box
- EBI IF 200 4-port Interface with USB connection and antenna
- TÜV Industrial Services certified Winlog.validation software
- 6 x holding clamp for probes
- Aluminium carrying case



Type	Description	Part No.
SL 3000	Validation set for small steam sterilizers	1340-6079

SL 3100 Complete Validation Set for large steam sterilizers



For the validation of steam sterilizers according to ISO 17665 as well as for the validation of washer-disinfectors and washer-disinfectors for endoscopes according to ISO 15883.

The set can individually be expanded or compiled yourself from one or more data loggers (EBI 10 or EBI 11), the appropriate interface and the software Winlog.validation. Talk to us!

The set contains:

- 5 x EBI 10-T471 temperature data loggers with AL 107 silicone protection boxes
- EBI 10-TP453 temperature/pressure data logger with AL 101 silicone protection box
- EBI IF 200 4-port Interface with USB connection and antenna
- TDS 3 Conductivity tester
- PHX 800 pH tester
- TÜV Industrial Services certified Winlog.validation software
- Aluminium carrying case



Type	Description	Part No.
SL 3100	Validation set for large steam sterilizers	1340-6080

Data Logger Sets for Routine Control

- EBI 11 Mini Data Logger Sets**
 for routine control of food processes.
 SL 4001: for temperature monitoring in cans (see page 45)
 SL 4101: for temperature monitoring in bottles (see page 46)
- EBI 16 Bowie and Dick Test Sets**
 for performing the Electronic Bowie and Dick Test according to the norms EN 285 / ISO 17665.
 SL 1520: for steam sterilizers (see page 44)
 SL 1620: for steam sterilizers and washer-disinfectors (see page 45)
- EBI 100 Precision Data Logger Sets**
 for routine control of food processes and of medical processes according to the German guideline.
 SL 1010: for bed pan washers (see page 43)
 SL 1110: for steam sterilizers and washer-disinfectors (see page 44)
 SL 4010: for temperature monitoring in tins (see page 46)
 SL 4110: for temperature monitoring in bottles and cans (see page 47)
 SL 4210: for temperature monitoring in different applications (see page 47)

The sets can individually be expanded or compiled yourself from one or more data loggers (EBI 11, EBI 16 or EBI 100), the appropriate interface and the corresponding software. Talk to us!

SL 1010 Temperature data logger set for temperature monitoring and A_0 value calculation in bed pan washers



The set contains:

- EBI 100-T100 temperature data logger (see p. 38)
- PHX 800 pH tester
- TDS 3 Conductivity tester
- Winlog.med Software
- EBI IF 150 Interface
- Aluminium carrying case

Extend this set with an EBI 16 Data Logger (see page 35), and you will be able to perform Electronic Bowie and Dick Tests.



Type	Description	Part No.
SL 1010	EBI 100 data logger set for bed pan washers	1340-6570

SL 1110 **Temperature / pressure data logger set**
for temperature and pressure monitoring as well as for A_0 value
calculation in steam sterilizers, washer-disinfectors and washer-
disinfectors for endoscopes



The set contains:

- EBI 100-TP231 pressure / temperature data logger with Luer-Lock connection (see page 41)
- PHX 800 pH tester
- TDS 3 Conductivity tester
- AL 101 Silicone protection box for logger
- Winlog.med Software
- EBI IF 150 Interface
- Aluminium carrying case



Extend this set with an EBI 16 Data Logger (see page 35), and you will be able to perform daily Electronic Bowie and Dick Tests.

Type	Description	Part No.
SL 1110	EBI 100 Data logger set for steam sterilizers and washer-disinfectors	1340-6571

SL 1520 **EBI 16 Bowie and Dick Test Set**
for steam sterilizers



For performing the Bowie and Dick Test according to the norms EN 285 and ISO 17665.



The set contains:

- Bowie Dick Test Logger EBI 16 (see page 35)
- Winlog.med software
- EBI IF 150 Interface
- Aluminium carrying case

Type	Description	Part No.
SL 1520	EBI 16 Bowie and Dick Test Set for steam sterilizers	1340-6198

SL 1620 **EBI 16 Bowie and Dick Test Set** for steam sterilizers and washer-disinfectors



For performing the daily Bowie and Dick Test according to the norms EN 285 and ISO 17665 as well as for routine control.



The set contains:

- Bowie Dick Test EBI 16 (see page 35)
- EBI 100-T100 temperature data logger (see p. 38)
- Winlog.med software
- EBI IF 150 interface
- Aluminium carrying case

Type	Description	Part No.
SL 1620	EBI 16 Bowie and Dick Test Set for steam sterilizers and washer-disinfectors	1340-6573

SL 4001 **EBI 11 Mini Data Logger Set for Pasteurization and Sterilization** for temperature monitoring in cans



The set contains:

- EBI 11-T23x Mini temperature data logger: Needle length: 20 mm, 50 mm or 100 mm (Special needle lengths on request)
- AL 114 can adapter set
- EBI IF 100 interface
- Winlog.pro software
- Aluminum carrying case

Please name us the correct type of data logger in your order.

Mini Temperature Data Logger, 1-channel	
Type	
Needle length = 20 mm	EBI 11-T230
Needle length = 50 mm	EBI 11-T231
Needle length = 100 mm	EBI 11-T233

Type	Description	Part No.
SL 4001	EBI 11 set for pasteurization and sterilization	1340-6091

SL 4010 EBI 100 Data Logger Set for Pasteurization and Sterilization for temperature monitoring in tins



The set contains:

- EBI 100-T230 Temperature Data Logger
- EBI DA-SET Can Adapter
- EBI IF 100-1 Interface
- Winlog.pro Software
- Aluminum carrying case

Type	Description	Part No.
SL 4010	EBI 100 Data logger set for pasteurization and sterilization	1340-6575

SL 4101 EBI 11 Mini Data Logger Set for Pasteurization for temperature monitoring in bottles



The set contains:

- EBI 11-T23x Mini temperature data logger:
Needle length: 20 mm, 50 mm or 100 mm
(Special needle lengths on request)
- AL 115 Bottle adapter set
- EBI IF 100 interface
- Winlog.pro software
- Aluminum carrying case



Please indicate the correct type of data logger in your order.

Mini Temperature Data Logger, 1-channel	
Type	
Needle length = 20 mm	EBI 11-T230
Needle length = 50 mm	EBI 11-T231
Needle length = 100 mm	EBI 11-T233

Type	Description	Part No.
SL 4101	EBI 11 Mini data logger set for pasteurization	1340-6093

SL 4110 **EBI 100 Data Logger Set for Pasteurization**
for temperature monitoring in bottles and cans



The set contains:

- EBI 100-T261 Temperature Data Logger
- EBI FL-S Bottle Adapter
- EBI DA Can Adapter
- EBI IF 100-1 Interface
- Winlog.pro Software
- Aluminum carrying case

Type	Description	Part No.
SL 4110	EBI 100 Data logger set for pasteurization	1340-6576

SL 4210 **EBI 100 Basic Temperature Monitoring Set**
Temperature monitoring system for different applications



The set contains:

- EBI 100-T100 Temperature Data Logger
- EBI IF 100-1 Interface
- Winlog.pro Software
- Aluminum carrying case

Type	Description	Part No.
SL 4210	EBI 100 Basic temperature monitoring set	1340-6577