



Professional Data Logger

FOR VALIDATION, ROUTINE CONTROL AND PROCESS MONITORING

Distributed By:

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Choice, Service, Trust

camlab

-ebro-

a xylem brand

Data Loggers

ebro® offers data loggers for many different applications:



Operation and Processqualification

Description:

- Highly accurate temperature, pressure, humidity and conductivity data loggers for thermal validation processes
- Wide range of probe types and configurations
- Wireless data loggers for real time monitoring
- Data loggers for low space

Applications:

- Process validation in steam sterilizers, autoclaves, in the production of canning, a.s.o.
- Process validation in washer-disinfectors and washer-disinfectors for endoscopes
- F_0 -value and A_0 -value calculation
- Process validation in low temperature sterilizers such as EtO, LTSF and H_2O_2

Routine control / Mapping

Description:

- Highly accurate temperature, pressure, humidity and conductivity data loggers for thermal process control
- Electronic Bowie&Dick-Test according to ISO 17665 and EN 285 / EN 13060
- Data loggers for low space
- Data loggers for regular process controls

Applications:

- Routine control in steam sterilizers and autoclaves
- Routine control in washer-disinfectors and washer-disinfectors for endoscopes
- Routine control at canning
- Mapping





Room Monitoring and Processcontrol

Description:

- Highly accurate temperature, pressure and humidity data loggers
- Standard temperature and humidity data loggers with automatic PDF report generation
- Wireless system to monitor temperature and humidity
- Multichannel Thermo Couple temperature data loggers

Applications:

- Room monitoring
- Transport and storage monitoring
- Clean room and freezer monitoring

Logger systems

and accessories for Process monitoring, Routine control and Validation



Food



Applications

- Autoclaves / Sterilizers / Pasteurization Processes
- Continuous Fryers
- Lyophilization
- Hydrostatic Retorts
- Refrigerators / Freezers / Cooling Rooms
- Smokehouse
- Cooker / Cooler (Reeland Spiral)



Medical



- Steam Sterilization
- Washer disinfectors / bedpan washers
- H₂O₂-, LTSF- and EtO- Sterilization
- Depyrogenation / heat tunnel
- Incubators
- Refrigerators / Freezers / Cooling Rooms
- Stability Chambers



Pharmaceutical



- Steam-, H₂O₂ and EtO- Sterilization
- Washer disinfectors
- Depyrogenation / heat tunnel
- Lyophilization
- Incubators
- Refrigerators / Freezers / Cooling Rooms
- Climatic Test Chambers / Stability Chambers

Products



EBI 11 Series



EBI 12 Series



EBI 310 Series



EBI 25 Series



EBI 40



EBI 11 Series



EBI 12 Series



EBI 16



EBI 310 Series



EBI 25 Series



EBI 40



EBI 11 Series



EBI 12 Series



EBI 16



EBI 310 Series



EBI 25 Series



EBI 40

Data Logger Sets



Complete Data Logger Sets for Processcontrol and Monitoring, for Routine Control, Mapping and against Acceptable Quality Limit (AQL)

Description:

- Data Loggers with evaluation software and extensive equipment
- FDA 21 CFRPart11 conform software

Applications:

- Processcontrol, Monitoring and routine control in steam sterilizers, washer disinfectors, washer disinfectors for endoscopes as well as bedpan washers.
- Implementation of the electronic Bowie&Dick-Test.
- Processand routine control of pasteurization and bottle cleaning processes
- Processand routine control in cooking processes
- Processand routine control in other thermal processes in the food, pharma or medical sector

Advantages:

- Fully automatic and tamper-proof evaluation
- Individual evaluation by user-defined evaluations
- Wide range of wireless data loggers for different applications
- Highly flexible temperature cable probe
- High precision Pt 1000 temperature sensors
- High accuracy up to $\pm 0,05$ °C
- TÜV certified, FDA 21 CFRPart11 conform software
- 2 years warranty





Complete Data Logger Sets for Operation and Process Qualification

Description:

- Data Loggers for validation with evaluation software and extensive equipment
 - TÜV certified
 - FDA 21 CFR Part 11 conform software
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Applications:

- Operation and Process Qualification in pasteurization and bottle cleaning processes.
 - Operation and Process Qualification in steam sterilizers, washer disinfectors, washer disinfectors for endoscopes as well as DAC-Universal
 - Operation and Process Qualification in cooking processes
 - Operation and Process Qualification in other thermal processes in the food, pharma or medical sector
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Advantages:

- Fully automatic and tamper-proof evaluation
 - Individual evaluation by user-defined evaluations
 - Wide range of wireless data loggers for different applications
 - Highly flexible temperature cable probe
 - High precision Pt 1000 temperature sensors
 - High accuracy up to $\pm 0,05$ °C
 - TÜV certified, FDA 21 CFR Part 11 conform software
 - 2 years warranty
-

Process Monitoring



EBI 25
Wireless Data Logger System



EBI 40
Multi-Channel Temperature
Data Logger

Description:

- Radio data logger system for temperature and humidity measurements
- Other measurements can be integrated using Modbus over IP or other protocols
- Automatic alarm when limit is exceeded
- Automatic report generation

Applications:

- Continuous monitoring of Food in cooling or freezing areas, Drugs and vaccine in Drug Stores, clinical trials in labs and in Warehouses

Description:

- Temperature data logger for up to 6 or 12 thermocouple sensors with SMP connection
- Current measurement values and measurement curve shown on multi-color TFT display
- With USB connection for fast programming and readout of the measurement data

Applications:

- Monitoring of food in cooling or freezing areas, drugs and vaccine in drug stores, clinical trials in labs and in warehouses





EBI 3x0 PDF Data Logger

Description:

- Single-use and multi-use data loggers for temperature and humidity measurement
- USB connection
- Automatic PDF report generation with all measurement data
- Easy programming of the data loggers via the free online configurator at www.ebi300.com, no special software required

Applications:

- Monitoring of food in cooling or freezing areas, drugs and vaccine in drug stores, clinical trials in labs and in warehouses

Software

ebro® offers exactly the software you need:

- Evaluation software for any applications:
Winlog.pro
- Evaluation software for EBI25 data loggers:
Winlog.web
- Evaluation software for pharmaceutical and medical applications:
Winlog.med and Winlog.validation

Software/Features	Winlog.pro	Winlog.med	Winlog.validation	Winlog.web
Event Triggered Recording				
Script-Calculations				
System-Scripts				
Picture Manager				
Measure in Charts				
Cursor				
Realtime Calculations				
Ranges				
Range-based Calculations				
Statistics per Range				
Relative Time Axis				
Configurations		(2)	(2)	
Firmware-Update				
Import	(1)			
Calibration				
Automatic File Name Generation				
21 CFR Part 11				
User Administration				
Audit-Trail				
Advanced Chart Features				
Multi Document Support				
Export (Excel, PDF)				
Customizable Company Logo				
Wireless Support				
2D Placement				
3D Placement				
Routine Check	(3)			
Validation	(3)			
Unit Administration				
Split Measurements				
Advanced Alarm-Management (Zones)	(5)			
App Winlog.mobile				
IQ/OQ				

(1) Winlog.validation
(2) Template based

(3) Manual
(4) Since V2.5
(5) EBI310 only

(6) Since V2.6
(7) Since V3.3
(8) Since V3.5

(9) Since V2.8
(10) Since V3.7



Supported Logger Types	Winlog.pro	Winlog.med	Winlog.validation	Winlog.web
EBI 10				
EBI 11				
EBI 12	(9)	(10)	(10)	
EBI 16		(8)	(8)	
EBI 20		(7)	(7)	
EBI 25				
EBI 40		(7)	(7)	
EBI 100				
EBI 310	(6)	(7)	(7)	
CT 830				
PHT 830				

System Requirements	Winlog.pro	Winlog.med	Winlog.validation	Winlog.web
Windows 7 / 32 bit				
Windows 7 / 64 bit				
Windows 8 / 32 bit				
Windows 8 / 64 bit				
Windows 10 / 32 bit				
Windows 10 / 64 bit				
Memory	1GB	1GB	1GB	4 GB
Hard Disc Memory	300MB	1 GB	1 GB	20 GB
CD/DVD Drive				
Screen Resolution	1024x768	1024x768	1024x768	1024x768
Processor	Pentium 1GHz+	Pentium 1GHz+	Pentium 1GHz+	Dual Core 2 GHz+

Market Overview	Winlog.pro	Winlog.med	Winlog.validation	Winlog.web
Food				
Industry				
Pharmaceutical				
Medical				

Available Languages	Winlog.pro	Winlog.med	Winlog.validation	Winlog.web
English				
French				
Italian				
Spanish				
Chinese				
Japanese				
Korean				
Portuguese				
Greek				
Czech				
Swedish				
Dutch				
German				
Turkish				
Polish				
Norwegian				

Calibration

Precision measurement and testing equipment such as thermometers and data loggers should be checked and calibrated regularly.

Factory Calibration

Most ebro measuring equipment is supplied with a factory calibration certificate. The functionality and the tolerances indicated in the technical specifications are thus ensured. Factory calibration is completed with DAkkS-calibrated factory normal.

- Calibration completed using special equipment.
- All factory certificates issued by trained personnel.
- The factory calibration certificate confirms the suitability of the device for official calibration.

