SL 412X EBI 12 Data Logger Set for Pasteurization











The set contains:

- 1 x EBI 12-T46X Temperature data logger, needle length: 135 mm, 190 mm, 245 mm, 270 mm or 300 mm
- EBI FL-S Bottle Adapter

	EDIT LO DOMO / Maptor	Trees	Description	Part No.
•	EBI DA Can Adapter	Туре	•	
	•	SL 4121	EBI 12-T461 Data logger set for pasteurization	1250-4121
•	EBI IF 100-1 Interface	SL 4122	EBI 12-T462 Data logger set for pasteurization	1250-4122
•	Winlog.pro Software	SL 4123	EBI 12-T463 Data logger set for pasteurization	1250-4123
	Carrying case "SYSTAINER"	SL 4124	EBI 12-T464 Data logger set for pasteurization	1250-4124
,,	Carrying case "STSTAINER	SL 4125	EBI 12-T465 Data logger set for pasteurization	1250-4125















- 1 x EBI 12-T100 Temperature data logger
- EBI IF 100 Interface
- Winlog.pro Software
- Carrying case "SYSTAINER"

 Type
 Description
 SL 4211
 EBI 12 Basic temperature monitoring set
 1250-4211





Data Logger Sets for Operation and Process Qualification

EBI 11 Mini Data Logger Sets

SL 1221: Validation set for washer-disinfectors for endoscopes (see page 50)

SL 3301: Validation set for DAC Universal, small sterilizers and washer-disinfectors (see page 52)

EBI 12 Precision Data Logger Sets

SL 2001: for washer-disinfector (see page 51) SL 3001: for benchtop sterilizers (see page 51)

SL 3101: for large steam sterilizers (see page 52)

The sets can individually be expanded or compiled by yourself from one or more data loggers (EBI 11, EBI 16 or EBI 12), the appropriate interface and the corresponding software. Talk to us!

SL 1221 Complete Validation Set for Washer-Disinfectors for Endoscopes



1340-6088

For the validation of thermal processes in washer-disinfectors for endoscopes according to ISO 15883.

This reliable system consists of user-friendly mini data loggers and an Endoscope-Dummy that can be placed directly in the processes.

The set contains:

- 3 x EBI 11-T235 Mini temperature data logger, needle length: 25 mm
- 1 x EBI 11-P111 Mini pressure data logger
- Sealing kit EBI 11-Valiset
- EBI IF 300, 4-port Interface
- Winlog.validation, evaluation software
- spypach Endoscope-Dummy "spo-pro" Professional
- Aluminum carrying case

Adequate pH and conductivity meters, see page 55.

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Туре	Description	Part No.
SL 1221	Endoscope set validation PROFESSIONAL	
Spo-pro BASIC	Dummy BASIC without logger	1340-6086
Spo-pro- CLASSIC	Dummy CLASSIC without logger	1340-6087



Spo-pro

PROFESSIONAL

Dummy PROFESSIONAL without logger

SL 2001 Complete Validation Set

for washer-disinfectors





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

The set can individually be expanded or compiled yourself from one or more data loggers (EBI 12 or EBI 11), the appropriate interface and corresponding software. Talk to us!

The set contains:

- 1 x EBI 12-T220 Temperature data logger
- 2 x EBI 12-T441 Temperature data loggers
- 1 x EBI 12-TP231 Temperature/ pressure data logger
- EBI IF 200, 4-port Interface with USB connection and antenna
- TÜV certified software Winlog. validation
- Carrying case "SYSTAINER"



Туре Description SL 2001 Validation set for washer-disinfectors

Part No. 1250-2001

SL 3001 Complete Validation Set for benchtop 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 11, EBI 16 or EBI 12), the appropriate interface and corresponding software. Talk to us!

The set contains:

- 1 x EBI 12-TP453 Temperature/pressure data logger with AL 101 silicone protection box
- EBI IF 200 4-port Interface with USB connection and antenna
- TÜV certified software Winlog.validation
- Carrying case "SYSTAINER"



Type

Description SL 3001 Validation set for small steam sterilizers 1250-3001

Part No.



SL 3101 Complete Validation Set

for large steam sterilizers

For the validation of steam sterilizers according to ISO 17665.

The set can individually be expanded or compiled yourself from one or more data loggers (EBI 11, EBI 16 or EBI 12), the appropriate interface and and corresponding software. Talk to us!

The set contains:

- 5 x EBI 12-T471 Temperature data loggers with AL 107 silicone protection boxes
- 1 x EBI 12-TP453 Temperature/ pressure data logger with AL 101 silicone protection box
- EBI IF 200, 4-port Interface with USB connection and antenna
- TÜV certified software Winlog, validation
- 2 x AL 190 silicone cable strap sets
- Carrying case "SYSTAINER"

Type

Description

Validation set for large steam sterilizers

Part No. 1250-3101









SL 3301 Complete Validation Set

for DAC UNIVERSAL, small steam sterilizers as wells as washer disinfectors

Very flexible data logger system to perform validations for various thermal processes in the DAC Universal and benchtop autoclaves according to ISO 17665/DIN 58929 as well as washer disinfectors according to ISO 15883.

This reliable system consists of user-friendly mini data loggers that can be placed directly in the processes and an evaluation software package that has been certified by the TÜV.

The set contains:

- 2 x EBI 11-T235 Mini temperature data logger, needle length: 25 mm
- 2 x EBI 11-T236 Mini temperature data logger, needle length: 80mm
- 1 x EBI 11-T237 Mini temperature data logger, needle length: 165mm
- 1 x EBI 11-P111 Mini pressure data logger
- Sealing-kit for EBI 11
- EBI IF 300, 4-port Interface
- Winlog.validation Software

Carrying case "SYSTAINER"

Type SL 3301 Description

Validation set for DAC Universal, small steam sterilizers as well as washer disinfectors

Part No.

1250-3301







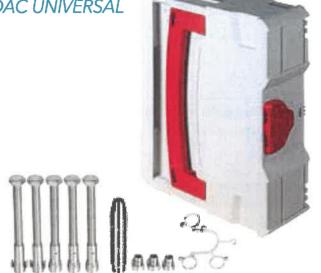
Equipment for operation- or process qualification

AL 3300 DAC Adapter-Set

for validation of the thermal process in DAC UNIVERSAL

The set contains:

- 1 x Logger mount
- 1 x PCD test body incl. adapter for ISO, Sirona and KaVo
- 5 x M12x100 worst case load incl. adapter
- Carrying case "SYSTAINER"



AL 3301 - 3303 DAC Adapter-Set

for validation of the cleaning capacity in the DAC UNIVERSAL

The AL 3301 set contains:

 3 x Adapter for test soil "ISO" Connection

The AL 3301 set contains:

 3 x Adapter for test soil "Sirona" Connection

The AL 3301 set contains:

 3 x Adapter for test soil "KaVo" Connection



Designed to use the test soil from the SMP GmbH Tübingen.



Other Accessories

AL 126 Test adapter for hollow bodies, hoses and endoscopes for validation in washer-disinfector and endoscope washer

For measuring the temperature and pressure within hollow bodies

Exact measurement of the temperature due the plastic housing



Approximately available from end of Q1 2018

AL 127 Trolley "SYSTAINER" for the easy transport of Systainers

For transport of systainers

Fixed seat of the systainers on the trolley



Туре	Description	Part No.
AL 3300	DAC Adapter set for thermal testing	1340-6052
AL 3301	DAC Test soil adapter set "ISO"	1248-3301
AL 3302	DAC Test soil adapter set "Sirona"	1248-3302
AL 3303	DAC Test soil adapter set "Kavo"	1248-3303
AL 126	Test adapter for hollow bodies, hoses and endoscopes	1248-0126
AL 127	Trolley "Systainer	1248-0127



Adequate pH- and Conductivity Meters for Validation Sets

PHT 830 pH Meter with temperature compensation











- Configuration directly on device using 5 buttons and display
- Graphic LCD display with backlight
- Logging function
- Temperature compensated
- Software connection by IF 830, Winlog.pro, Winlog.med, Winlog.validation

Technical Data

Measurement rang	e pH:	0 pH 14 pH		
	mV:	-1,999 1,999 mV		
	temperature:	-10 °C +100 °C		
Resolution	pH:	0.01 pH;		
	mV:	1 mV		
	temperature:	0.1 °C		
Accuracy	pH:	± 0.03 (± 2 pH-units)		
	temperature:	± 0.1 °C		
Memory		4,000 measurement values		
Temperature		-10 °C +100 °C		
Display		128 x 64 Pixel, backlight		
Interface		USB with "Interface HMG USB", galvanically isolated		
Battery		3 Batteries Type AA, IEC R6, LR6, 1.5 V		
Ambient		-10 °C +55 °C		
Relative humidity		Max. < 95% (not condensating)		
Connections		Connectors BK (4-pin interface socket)		
Housing		ABS		
Protection class		IP 65		
Dimension (LxWx	D)	200 mm x 95 mm x 40 mm		
Weight		290 g incl. Batteries		

CT 830 Conductivity Meter

with auto range



- Configuration directly on device using 5 buttons and display
- Graphic LCD display with backlight
- Logging function
- Temperature compensated
- Software connection by IF 830, Winlog.pro, Winlog.med, Winlog.validation









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Measurement range		0 200 μS	TD\$ 0200 mg/l		
		0 2,000 μS	TDS 0 2,000 mg/l		
Resolution		0.1 μS; 1 μS			
Accuracy	conductivity:	± 0.5 % of the meas	suring range		
	temperature:	± 0.1 °C			
Memory		4,000 measuremen	t values		
Temperature		-10 °C +100 °C			
Display		128 x 64 Pixel, backlight			
Interface		USB with "Interface HMG USB", galvanically isolated			
Battery		3 Batteries Type AA, IEC R6, LR6, 1.5 V			
Ambient		-10 °C +55 °C			
Relative humidity	/	< 95% (not condensating)			
Connections		Connectors BK (4-pin interface socket)			
Housing		ABS			
Protection class		IP 65			
Dimension (Lx V	V x D)	200 mm x 95 mm x 40 mm			
Weight		290 g incl. Batteries			

Туре	Description	Part No.
PHT 830 SET 1	pH Meter with plastic electrode	1340-5812
CT830 SET	Conductivity Meter with plastic electrode	1340-5835





Various electrodes for PHT 830

AT 830 pH K Binder

Temperature compensated Housing material: plastic Cable length: 150 cm Diameter: 12 mm Shaft length: 120 mm



Temperature compensated
Shaft housing material: glass
Cable length: 100 cm
Shaft diameter: 12 mm
Shaft length: 120 mm



Temperature compensated for measurements in semisolid food products and other materials.

Housing material: glass Cable length: 100 cm Shaft/electrode diameter:

15 mm/5 mm

Shaft/electrode length:

65 mm/12 mm



Technical Data	AT 830 pH K	AT 830 pH G	AT 830 pH E
pH measurement range	0 pH 14 pH	0 pH 14 pH	2 pH 13 pH
Temperature measurement range	0 °C +100 °C	0 °C +100 °C	+5 °C +80 °C
	(+32 °F +212 °F)	(+32 °F +212 °F)	(+41 °F +176 °F)
Electrolyte	Gel	Gel	Referid®

Туре	Description	Part No.
AT 830 pH K Binder	Plastic electrode	1339-0661
AT 830 pH G Binder	Measurement electrode for laboratories	1339-0662
AT 830 pH E Binder	Penetration electrode	1339-0663

Electrode for CT 830

AT 830 C Binder

Temperature compensated Housing material: plastic Cable length: 150 cm Diameter: 12 mm Shaft length: 120 mm



Technical Data	AT 830 C			
Conductivity measurement range 0 µS 500 mS				
Temperature measurement ran	ge 0 °C +100 °C			
	(+32 °F +212 °F)			

Туре	Description	Part No.	
AT 830 C Binder	Plastic electrode	1339-0660	



Interface cable for PHT 830 and CT 830

EBI IF 830

For reading out the memory of the PHT 830 and CT830

Software connection
 Winlog.pro, Winlog.med,
 Winlog.validation



Туре	Description	Part No.
EBI IF 830	Interface for PHT 830 and CT 830	1340-6011

PHX 800 Basic pH Tester

with acoustic signal



- Automatic deactivation
- Battery charge indicator
- Replaceable battery

Technical Data

0 рН 14 рН	
0.1 pH	
±0.2 pH	
0 °C +50 °C (+32 °F 122 °F)	
-25 °C +60 °C (-13 °F 140 °F)	
ABS plastic	
170 x 32 x 15 mm	
Approximately 70 g	
1.5 V A76/LR44	
Approximately 150 hours	
Automatically after 15 minutes	
	0.1 pH ±0.2 pH 0 °C +50 °C (+32 °F 122 °F) -25 °C +60 °C (-13 °F 140 °F) ABS plastic 170 x 32 x 15 mm Approximately 70 g 1.5 V A76/LR44 Approximately 150 hours

Type	Description	Part No.
PHX 800	Basic pH Tester	1340-5800

TDS 3 Basic Conductivity Tester

Dual Display



Technical Data

Measurement range	0 1,999 µS	0 1,999 ppm	
	0 19.99 mS	0 19.99 ppt	
Measurement accuracy	1 μ\$		
Resolution	1 μS	1 μS	
Operating temperature	0 °C +50 °C (+32	0 °C +50 °C (+32 °F 122 °F)	
Storage temperature	-25 °C +60 °C (-1:	-25 °C +60 °C (-13 °F 140 °F)	
Housing material	ABS plastic	ABS plastic	
Dimension (L x W x H)	170 x 32 x 15 mm		
Weight	Approximately 70 g	Approximately 70 g	
Battery	4 x 1.5 V A76/LR44	4 x 1.5 V A76/LR44	
Battery lifetime	Approximately 150	hours	

- Battery charge indicator
- Replaceable battery

Туре	Description	Part No.	
TDS 3	Basic Conductivity Tester	1340-5831	



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

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:

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

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



EBI 40 Multi-Channel Temperature Data Logger

The EBI 40 Multi-Channel Temperature Data Logger records temperatures during process monitoring and validation. Current measurement values and the measurement curve can be read on the multi-colored TFT display. The thermal insulation using the thermo isolation box allows the use of the data logger at very high temperatures. The EBI 40 is suitable for the connection of up to six or twelve thermocouple probes.

Applications:

Monitoring and validation of processes in:

- Incubators
- Refrigerators
- Climate cabinets
- Storage rooms
- Transport studies
- Freeze-dryers etc.



















EBI 40-TC Multi-Channel Data Logger for type K and T thermocouple sensors













Matching probes can be found online at www.ebro.com

Technical Data

Measurement range	-200 °C +1,200 °C (-328 °F +2,192 °F)
Accuracy	±0.5 °C (at 25 °C)
Resolution	0.1 °C (0.2 °F)
Channels	6 or 12 temperature channels
Sampling rate	Adjustable from 0.1 sec to 24 hours
Sensor	Thermocouple Type K / SMP connection
Operating temperature	0 °C +60 °C (0 °F +140 °F)
Storage temperature	0 °C +70 °C (32 °F 158 °F)
Memory	20,000 measurements per channel (max. 240,000 measurements)
Measurement mode	 Endless measurement immediatley Measure immediatley until end of memory Start / stop measurement
Display	TFT-display 3.5" (324 x 240 Pixel)
Dimensions (L x W x H)	140 x 118 x 35 mm
Housing material	ABS + PC
Protection class	IP 40
Certificate	Factory Calibration Certificate

Туре	Description	Part No.
EBI 40-TC-01	6-channel data logger (without probes)	1340-6400
 EBI 40-TC-02	12-channel data logger (without probes)	1340-6401

Accessories for EBI 40











AN 142 Extension cable, 1 m silicone, SMP AN 144 Extension cable, 2.5 m, silicone, SMP



Wall mount EBI 40-WH Bracket for 35 mm cap rail

EBI TIB 400-01 Thermal Isolation Box for

Sturdy thermal barrier (stainless steel and ceramic)

- · Heat resistant insulation
- Replaceable sealing and cooling element
- Easy to transport
 Protects EBI 40 for 2 hours at +250°C (+482 °F)
- Dimensions (with folded handles): 247 x 210 x 131 mm

Туре	Description	Part No.
AN 141	Adapter cable, 1 m silicone SMP/Lemo size 0	1341-2629
AN 142	Extension cable, 1 m silicone, SMP	1343-2626
AN 144	Extension cable, 2-5 m silicone, SMP	1343-2627
EBI TIB 400-01	Thermal Isolation Box for EBI 40	1340-6430
EBI 40-WH	EBI 40 wail mount	1340-6431



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











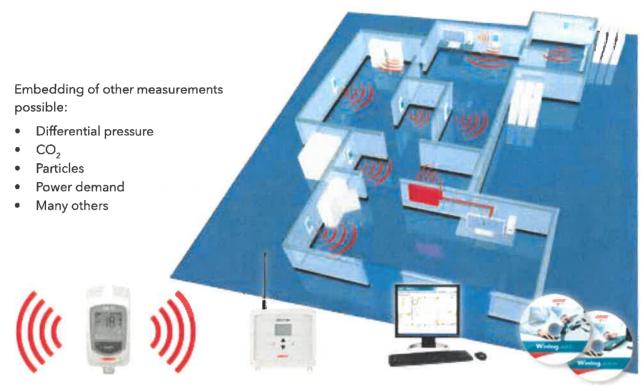












EBI 25 data loggers

- 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 80.

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

0.1 °C (0.2 °F) in a range of -99.9 °C +199.9 °C (-147.8 °F +391.8 °F)
1 °C (2 °F) of the remaining measurement range
0.1% rH
288 measurement values (per channel)
1 min. to 24 hours, adjustable
868 MHz in EU
3.6 V lithium (user replaceable)
Up to 2 years, depending on measurement and transmission rate
-40 °C +85 °C (-40 °F +185 °F)
-30 °C +60 °C (-22 °F +140 °F)
Endless measurement
ABS
Approximately 65 g





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











Technical Data

Totalilled Para	
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
Factory Calibration Certificate	-20 °C and 0 °C

Туре	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
•	-20 °C +40 °C (±0.9 °F at 4 °F 104 °F)
	±0.8 °C
	-30 °C20 °C / +40 °C +60 °C
	(±1.4 °F at -22 °F4 °F / +104 °F +140 °F)
	±1.5 °C
	-40 °C30 °C / +60 °C +85 °C
	(±2.7 °F at -40 °F22 °F / +140 °F+185 °F)
Sensor	NTC
Probe	\emptyset 3.8 mm, L = 65 mm, with 2 m PUR cable
Protection class	IP 67
Dimensions (L x W x H)	$95 \times 48 \times 27$ mm (without probe)
Factory Calibration Certificate	-20 °C and 0 °C

Туре	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











Technical Data

144111114111141			
Measurement range	-200 °C +199.9 °C (-328 °F +391.8 °F)		
Accuracy*	±2 °C (-200 °C100 °C)		
-	±0.5 °C		
	(-100 °C20 °C and +60 °C +199.9 °C)		
	±0.4 °C (-20 °C +60 °C)		
Probe	\emptyset 5 mm, L = 50 mm, with 3 m 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)		
Factory Calibration Certificate	-80 °C, 0 °C and +134 °C		
· ·			

^{*}Accuracy only applies when using an adjusted probe

Туре	Description	Part No.
EBI 25-TX	Temperature data logger (with probe TPX 25-3)**	1340-6204
EBI 25-TX	Temperature data logger (without probe)	1340-0025
TPX 25-3	Pt 1000 probe for EBI 25-TX, 3 m	1341-0025
TPX 25-5	Pt 1000 probe for EBI 25-TX, 5 m	1341-0026
TPX 25-7,5	Pt 1000 probe for EBI 25-TX, 7,5 m	1341-0027
TPX 25-10	Pt 1000 probe for EBI 25-TX, 10 m	1341-0028

^{**} Calibration certificate valid only for logger and probe.

EBI 25-TH Wireless Temperature / Humidity Data Logger

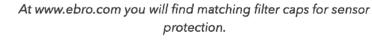














Measurement range: temperature	-30 °C +60 °C (-22 °F +140 °F)
Measurement range: humidity	0% rH 100% rH
Accuracy: temperature	±0.5 °C
	-20 °C +40 °C (± 0.9 °F at -4 °F 104 °F)
	±0.8 °C (±1.4 °F)
	for the remaining measurement range
Accuracy: humidity	±3 % rH (10 % 90 %)
Sensor	NTC for temperature / capacity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

Туре	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



AL 250 - Protection Box for EBI 25 TE and TX

Protects the data logger from hose water, as it is the case when cleaning production sites.

Delivery Contents: Incl. Mounting material, drill template, holder for EBI 25 logger.

_	-	_		_	
Te	ch	nic	:al	D	ata

Protection Class IP 67		
Dimensions (LxWxH)	170 x 80 x 68 mm	



EBI 2 AB-2 - Alarmbox to connect to interface IF 400

If you prefer to be informed about a violation of the limit, close the alarm box to the IF 400 base station. Depending on the setting in the software, you will receive an alarm via this base station or the loggers.

The alarm box has a potential-free changeover contact which is used to connect additional devices for alarming.

Delivery Contents: Incl. Mounting material

Technical D	oter

iechnicai Data	
Supply Voltage	100 to 250 V AC
max. switched power	8A, 30V DC / 250V AC
Dimensions (L x W x H)	120 x 80 x 55 mm



AL 251 - orange Flash Light and buzzer combination

You can connect the LED / buzzer combination to the potential-free contact of the alarm box for visual alarm in case of limit violations.

Delivery Contents:

Power supply and connection cable are not included.

Technical Data

Supply Voltage	24 V DC
loudness	92 dB
Protection Class	IP 65
Dimensions (L x W x H)	120,5 x 91 x 91 mm





EBI IF 400 - Interface for EBI 25 data logger

The interface works as a communication interface between EBI 25 data logger and software Winlog.wave or Winlog.web

Delivery Contents:

Antenna, Power Supply, USB-cable.

Technical Dat	a
Protection Cla	ss IP 20
Dimensions (without Antenna) (L x W x H)	150 x 180 x 45 mm
Operating Temperature	-25 °C+50 °C
USB- Connection	Typ B 100 mA USB 1.1
LAN-	Ethernet 10 / 100



AG 152 - Wall Mount for EBI 25 data logger

The AG 152 is used for simple and secure attachment of the EBI 25 data loggers.

Delivery Contents:

Logger fastening, Opening tool, Mounting material (double sided tape, screws, dowel, cable ties).

To		احما	l Dat	_
164	9717	iica	ı Dat	а

Material	ABS
Dimensions	150 x 180 x 45 mm
(LxWxH)	



AL 116 - external Antenna to connect with IF 400

Install the antenna in the wet area and increase the range.

Delivery Contents:

Mounting material (screws / dowel).

Technical Data		
Cable length	3 m	
Dimensions	110 x 255 mm	

(LxW)

Туре	Description	Part No.
AG 152	Wall Mount for EBI 25 data logger	1340-6215
AL 250	Protection Box for EBI 25 TE and TX	1248-0250
EBI 2 AB-2	Alarm box to connect with interface IF 400	1613-1301
AL 251	Orange Flash Light and Buzzer combination	1340-6233
AL 252	Power supply 24V for AL 251 Flash - Light	1220-0355
EBI IF 400	Interface for EBI 25 data logger	1340-6210
AL 116	External Antenna	1340-6211
AL 120	Power supply 12V for Interface IF 400 - for replacement	1220-0350
Winlog.web	Web based Evaliation Software - Server solution	1340-2390
Battery	Battery for EBI 25 data logger	1100-0121





EBI 3x0 PDF Data Loggers

Cold Chain Monitoring

The easy to use data loggers with USB connection monitor the temperature and/or humidity during transport and storage of sensitive goods like medicine, food, serums etc. Measurement reports are created automatically as PDF files when you connect the logger to a PC.

The EBI 300 and EBI 310 PDF data loggers are suitable for multi-use, the EBI 330 data loggers are single-use versions which can be ordered preconfigurated and are used especially when returning a more expensive multi-use logger to the sender after a shipment is difficult. Please contact us for more information.

















Program | Measure

- Programming of the logger with the help of the free online configurator at www.ebi300.com or
 optionally via the ebro software Winlog.basic, Winlog.light or Winlog.pro
- Set optional limits and start to record the measurement data

Connect | Readout

- Connection of the logger to any PC via the USB port
- Automatic generation of a PDF report with all important measurement data

Evaluate | Archive

- Store, save or email the PDF-report
- Further processing of the measurement data with the software Winlog.basic, Winlog.light or Winlog.pro

Benefits

- Direct USB connection
- Automatic PDF report generation
- Programmable at www.ebi310.com, no special software for programming and readout required but available
- Indication of alarm status via flashing LED
- Data integrity
- Conforms with FDA 21 CFR Part 11, DIN EN 12830 and ATP
- The data loggers help you to comply with GMP and VO (EG) 37/2005
- Free firmware updates at your place via software
- Excellent value-for-money

EDI 300 SERIES ** Property of the Property of

Digital interface

- Digital interface between loggers and external probes (at EBI 300 TE, EBI 300 TH, EBI 310 TE, EBI 310 TH, EBI 310 DI and EBI 310 TX).
- Data logger functions as data collector with optional internal sensor
- Easy exchange of the external probes e.g. for calibration: remove and send probe, connect replacement probe, measure!
- No calibration of the data collector required, if internal probe is not used!





Which EBI 310 PDF data logger is the right one for your application?

Every EBI 3x0 PDF data logger has the afore mentioned properties. Depending on the application, claim and your purse, there are different requirements for which we have the right devices. The following overview shall help making the decision.

	EBI 310	EBI 310 TE	EBI 310 DI	EBI 310 TX	EBI 310 TH	
Applications						
Monitoring of deep temperatures		✓	✓	√*		
Monitoring of high temperatures		/		√*		
Humidity monitoring					1	
Storage monitoring	1	1	1	√*	1	
Transport monitoring	1	1	1	/ *	1	
Process monitoring		1		√ *	1	
Usage within dry ice			1			
Measurement channels						
Internal temperature channel	1	1	1	/	/	
External temperature channel		1	1	2*	1	
Sensor cable		1	1	√*		
High precision (Pt 1000)	1	1	1	1	/	
Humídity channel					1	
Usage						
Multi-use	1	1	1	/	✓	
Calibration certificate						
Including factory calibration certificate	1	1	✓	√ *	✓	
Other features						
Display	✓	✓	✓	1	1	
Very flexible alarms (5 limits and MKT)	/	1	1	1	1	
High memory capacity (120,000 measurements)	1	1	1	1	1	

^{*} with connected, exchangeable sensors



General technical specifications: valid for all EBI 310 data logger types*

Memory capacity	120,000 measurements	
Alarm	5 ranges	
PDF creation	PDF/A 1b	
LED	Yes (red and yellow)	
Storage temperature	-40 °C +85 °C (-40 °F +185 °F)	
Sample rate	1 s 24 h	
Measurement modes	 Endless measurement Start / Stop Measurement until end of memory Start with key press 	
Display	Value, MIN / MAX, until end of memory, alarm on / off	
Maximum start delay	72 h	
Housing material	Polycarbonate	
Certificate	Factory calibration certificate	
Norms	DIN EN 12830	

EBI 310 Multi-Use PDF Data Logger

High precision version











Technical Data

Measurement range/operating	-30 °C +75 °C (-22 °F +167 °F)
temperature	By connecting an external probe, the temperature measurement range can be extended.
Accuracy	± 0.2 °C (-30 °C +30 °C / -22 °F +86 °F)
	±0.5 °C for the remaining measurement range
Sensor	PT 1000
Resolution	0.1 °C
Dimensions (L x W x H)	80 x 33 x 14 mm
Protection class	IP 65
Battery	Lithium button cell (CR 2450), 3 V
Battery lifetime	Up to 2 years, depending on applications
Factory calibration certificate	-20 °C, 0 °C and +60 °C

re-adjustable with Winlog.pro

Туре	Description	Part No.
EBI 310	High Precision PDF Data Logger	1340-6331

Accessories for the EBI 310, EBI 310 TE, EBI 310 DI,









EBI 300-WM2 Wall Mount for EBI 300 / 310

EBI 300 WM3 transportation mount for EBI 300 / 310 made of stainless steel

Туре	Description	Part No.	
EBI 300-WM2	Wall Mount for EBI 300 / 310	1340-6341	
EBI 300 WM3	Transportation mount for EBI 300 / 310	1340-6344	



EBI 310 TE Multi-Use PDF Data Logger with external precision temperature probe









Measurement of high and low temperatures



Technical Data

Measurement range external tempe	erature -200 °C +250 °C (-328 °F +482 °F)
Measurement range internal temperature / operating temperature	-30 °C +75 °C (-22 °F +167 °F) are
Accuracy (internal)	\pm 0.2 °C (- 30 °C + 30 °C / -22 °F +86 °F) \pm 0.5 °C for the remaining measurement range
Accuracy (external)	± 2.0 °C (- 200 °C100 °C / -328 °F148 °F) ± 1.0 °C (- 100 °C20 °C / -148 °F4 °F) ± 0.2 °C (- 20 °C + 60 °C / -4 °F +160 °F) ± 0.5 °C (+60 °C + 250 °C / +160 °F +482 °F)
Probe	Pt 1000, Stainless steel, Ø 5 mm, L = 50 mm, blunt
Cable	PTFE, $L = 1$ m, waterproof, oilproof and food safe
Resolution	0.1 °C
Dimensions (L x W x H)	91 x 33 x 14 mm
Protection class	IP 65
Battery	Lithium button cell (CR 2450), 3V
Battery life time	Up to 2 years, depending on applications
Factory calibration certificate	-80 °C, 0 °C, +60 °C and +134 °C

re-adjustable with Winlog.pro

- Simultaneous measurement of core temperature and ambient temperature
- Internal temperature probe usable additionally

Туре	Description	Part No.	
EBI 310 TE	PDF Data logger with external precision temperature probe	1340-6337	
TPX 220	Replacement probe for EBI 310 TE	1341-6332	
TPX 220-3	Replacement probe with 3 m cable for EBI 310 TE	1341-6332-	

EBI 310 DI Multi-Use USB Data Logger for dry ice measurements









Precise temperature measurements in dry ice



Technical Data

Measurement range external temperature / operating temperature	-85 °C +50 °C (-121 °F +122 °F)
Measurement range internal temperature	-30 °C +75 °C (-22 °F +167 °F)
Accuracy (internal)	± 0.2 °C (- 30 °C + 30 °C / -22 °F +86 °F) ± 0.5 °C for the remaining measurement range
Accuracy (external)	± 1.0 °C (- 85 °C20 °C / - 121 °F4 °F) ± 0.2 °C (- 20 °C + 50 °C / -4 °F +122 °F)
Probe	Pt 1000, Stainless steel, Ø 5 mm, L = 50 mm, blunt
Cable	PTFE, L = 60 cm, waterproof, oilproof and food safe
Resolution	0.1 °C
Dimensions (L x W x H)	100 x 33 x 14 mm
Protection class	IP 65
Battery	Lithium button cell in the logger, lithium battery in the probe, both changeable by the user
Battery life time	10 transports of up to 100h each
Factory calibration certificate	-80 °C and 0 °C

re-adjustable with Winlog.pro

- Additional battery allows usage within dry ice
- Internal temperature probe usable additionally

Type	Description	Part No.
EBI 310 DI	PDF Data logger for dry ice measurements	1340-6338
TPX 250	Replacement probe for EBI 310 DI	1341-6333
AL 118	Battery change set for TPX 250	1100-0126

EBI 310 TH Multi-Use PDF Data Logger with external









humidity and temperature probe

Relative humidity monitoring in storages and during



EBI 310 TH



Technical Data

Measurement range temperature / operating temperature	-30 °C +75 °C (-22 °F +167 °F)
Accuracy (internal)	± 0.2 °C (- 30 °C + 30 °C / -22 °F +86 °F)
	± 0.5 °C for the remaining measurement range
Accuracy (external)	± 0.5 °C (0 °C + 60 °C / +32 °F +140 °F)
	± 0.8 °C for the remaining measurement range
Probe temperature	Pt 1000
Measurement range humidity	0% rH 100% rH
Accuracy humidity	± 2% between 10% rH 90% rH (at 25 °C/+77 °F)
	± 4% for the remaining measurement range
Probe humidity	capacitive
Resolution temperature	0.1 °C
Resolution humidity	0.1% rH
Dimensions (L x W x H)	129 x 33 x 14 mm
Protection class	IP 20
Battery	Lithium button cell (CR 2450), 3V
Battery life time	Up to 2 years, depending on applications
Factory calibration certificate	0 °C and +20 °C: 32.8% and 75.4% rH

re-adjustable with Winlog.pro

You can find suitable filter caps
for humidity sensors online at
www.ebro.com

Internal temperature probe usable additionally

Туре	Description	Part No.
EBI 310 TH	PDF Data logger with external humidity probe	1340-6336
TPH 500	Replacement probe for EBI 310 TH	1341-6337
AH 100	PTFE filter	1340-5627
AH 200	Bronze sintered filter	1340-5626
VH 300	Stainless steel sintered filter	1340-5625

EBI 310 TX Multi-Use PDF Data Logger with temperature-two-channel-adapter









Temperature monitoring in storages and during transport, process monitoring







exchangeable sensors

•	Up to two exchangeable
	probes can be connected;
	not included, see the
	following page
•	Internal temperature probe

usable additionally

Technical Data

Measurement range external -200 °C + 400 °C (-328 °F +752 °F dependent on probe type	
Measurement range internal temperature / operating temperature	-30 °C +75 °C (-22 °F +167 °F)
Accuracy (internal)	\pm 0.2 °C (- 30 °C + 30 °C / -22 °F +86 °F) \pm 0.5 °C for the remaining measurement range
Probe	Pt 1000
Resolution	0.1 °C
Dimensions (L x W x H)	111 x 33 x 14 mm
Protection class	IP 65
Battery	Lithium button cell (CR 2450), 3V
Battery life time	Up to 2 years, depending on applications
Factory calibration certificate	-200 °C, 0 °C and +400 °C

re-adjustable with Winlog.pro

Туре	Description	Part No.	
EBI 310 TX	PDF Data logger with temperature-two-channel- adapter	1340-6339	
TPX 310	Replacement adapter for EBI 310 TX	1341-6335	



Exchangeable probes for EBI 310 TX



TPX 310-P1

• Measurement range: -200 °C ... +200 °C (-328 °F ... +392 °F)

-50 °C ... +180 °C (-58 °F ... +356 °F) • Needle: L = 130 mm, $\emptyset = 3 \text{ mm}$, blunt

- Needle: L = 45 mm, $\emptyset = 5 \text{ mm}$, blunt
- Cable: PTFE, L = 3 m

• Cable: PTFE, L = 3 m

TPX 310-P2 Measurement range:

Temperature		Accuracy
-200100 °C	-328148 °F	1.7 °C
-10020 °C	-1484 °F	1.2 °C
-20+60 °C	-4+140 °F	1.0 °C
+60+200 °C	+140+392 °F	1.7 °C

Temperature		Accuracy
-50+60 °C	-58+140 °F	0.6 °C
+60+180 °C	+140+356 °F	0.9 °C

Temperature		Accuracy
-50+60 °C	-58+140 °F	0.6 °C
+60+180 °C	+140+356 °F	0.9 °C



TPX 310-P3

- Measurement range: -50 °C ... +180 °C (-58 °F ... +356 °F)
- Needle: L = 130 mm, $\emptyset = 3 \text{ mm}$, blunt
- Cable: PTFE, L = 1 m

Temperature		Accuracy
-50+60 °C	-58+140 °F	0.5 °C
+60+180 °C	+140+356 °F	0.8 °C



TPX 310-P4

- Measurement range: +100 °C ... +400 °C (+212 °F ... +752 °F)
- Needle: L = 50 mm, $\emptyset = 1.5 \text{ mm}$, blunt
- Cable: metal wrapped, L = 3 m, not waterproof

Temperature	Accuracy
+100+250 °C +212+482 °F	1.1 °C
+250+400 °C +482+752 °F	1.4 °C

TPX 310-P5

- Measurement range:
 -50 °C ... +180 °C (-58 °F ... +356 °F)
 Probe: L = 130 mm, Ø = 3 mm, blunt
- Cable: PTFE, L = 5 m

Temperature		Accuracy
-5020 °C	-584 °F	0.5 °C
-20+60 °C	-4+140 °F	0.6 °C
+60+180 °C	+140+356 °F	0.8 °C

TPX 310-P6

- Measurement range: -50 °C ... +180 °C (-58 °F ... +356 °F)
 • Probe: L = 130 mm, Ø = 3 mm, blunt
- Cable: PTFE, L = 7.5 m

Temperature		Accuracy
-50+60 °C	-58+140 °F	0.7 °C
+60+180 °C	+140+356 °F	1.0 °C



TPX 310-P7

- Measurement range: -50 °C ... +180 °C (-58 °F ... +356 °F)
- Probe: L = 130 mm, Ø = 3 mm, blunt
- Cable: PTFE, L = 10 m

Temperature		Accuracy
-50+60 °C	-58+140 °F	0.9 °C
+60+180 °C	+140+356 °F	1.1 °C

Туре	Description	Part No.
TPX 310-P1	External sensor for EBI 310 TX	1341-6338
TPX 310-P2	External sensor for EBI 310 TX	1341-6339
TPX 310-P3	External sensor for EBI 310 TX	1341-6340
TPX 310-P4	External sensor for EBI 310 TX	1341-6341
TPX 310-P5	External sensor for EBI 310 TX	1341-6342
TPX 310-P6	External sensor for EBI 310 TX	1341-6343
TPX 310-P7	External sensor for EBI 310 TX	1341-6344



www.EBI310.com appear in a new design





Easy to Use!



Start



Connect



Inspect

Information

About Data Logger and Applications.

Configuration

Configure your PDF- data logger and program it by using Windows™ PC.

Simple and clear

Also usable with smartphone or Tablet.







Software

ebro offers exactly the software you need:

- Evaluation software for any applications: Winlog.pro
- Evaluation software for EBI 25 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	0	•	0	
Script-Calculations	0			•
System-Scripts				
Picture Manager	0		0	
Measure in Charts	0			
Cursor	0	•		
Realtime Calculations	0	•	0	•
Ranges	0	•	0	
Range-based Calculations	•	0	0	
Statistics per Range	0	•	0	
Relative Time Axis	0			
Configurations	•	(2)	(2)	
Firmware-Update	0		0	0
Import	(1)			
Calibration	0		0	
Automatic File Name Generation	0			
21 CFR Part 11	0	0	0	•
User Administration	0	0	0	0
Audit-Trail	0	0		
Advanced Chart Features	0			
Multi Document Support			0	
Export (Excel, PDF)	0	•	0	
Customizable Company Logo	0		0	0
Wireless Support	0		•	
2D Placement	0		0	
3D Placement			0	
Routine Check	(3)		0	
Validation	•(3)		•	
Unit Administration	0		0	0
Split Measurements	0	•	0	
Advanced Alarm-Management (Zones)	•(5)			
App Winlog.mobile				•
10/00	0		•	0

Supported Logger Types	Winlog.pro	Winlog.med	Winlog.validation	Winlog.web
EBI 10	•	0		
EBI 11	•	0	•	
EBI 12	●(9)	(10)	© (10)	
EBI 16		•(8)	●(8)	
EB! 20	•	●(7)	●(7)	
EBI 25				
EBI 40	•	●(7)	●(7)	
EBI 100	•	0		
EBI 310	●(6)	(7)	● (7)	
CT 830	•	•	0	
PHT 830	•	0	•	

System Requirements	Winlog.pro	Winlog.med	Winlog.validation	Winlog.web
Windows Vista / 32 bit	0	0	0	•
Windows Vista / 64 bit	0	•	•	
Windows 7 / 32 bit		•		
Windows 7 / 64 bit	0	•	•	•
Windows 8 / 32 bit	•	0	0	•
Windows 8 / 64 bit	•	0	•	•
Windows 10 / 32 bit	•	0	0	
Windows 10 / 64 bit	•	0	0	
Memory	≥ 1GB	≥ 1GB	≥ 1GB	≥ 4 GB
Hard Disc Memory	≥ 300 MB	≥ 1 GB	≥ 1 GB	≥ 20 GB
CD/DVD Drive	•	•	•	•
Screen Resolution	≥ 1024x768	≥ 1024×768	≥ 1024×768	≥ 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	•	0	•	•

Available Languages	Winlog.pro	Winlog.med	Winlog.validation	Winlog.web
English	•	0	0	•
French	•		•	•
Italian		0		
Spanish	•			
Chinese		0	0	
Japanese	0			
Korean	•	0		
Portuguese		0	0	
Greek		0	0	
Czech	0	0	0	
Swedish				
Dutch	0	0	0	
German	0	0	0	•
Turkish		0		
Polish		0		
Norwegian		0	0	

Evaluation Software for Any Applications

Winlog.pro

For the programming and reading of ebro data loggers and for the evaluation of the measured values, ebro offers the professional software **Winlog.pro**.

Benefits

- Easy installation
- Easy programming of the data loggers, no prior knowledge required
- Extensive and custom report generation
- Suitable for all applications
- Security by compliance with FDA 21 CFR Part 11

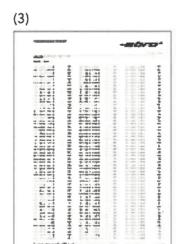
Extensive Report Generation

The software makes it easy to generate standard and custom reports:

- Compact, one-sided report (1)
- Multi-page, detailed report (2)
- Tabular report with the measurement values (3)
- Insertion of your own company logo possible (4)
- Export data to Microsoft Excel® and PDF (5)
- Integration of pictures and graphics possible (Winlog.pro only) (6)









(5)





(2)





Winlog.pro Professional software









- Enables real-time monitoring with wireless data loggers
- Formula editor for calculating the F0-value of the absolute humidity, the PE value etc.
- Display oft the timeline either absolute or relative
- Customized definition of individual areas possible (with their own statistics and calculations)
- Including calibration tool for data loggers
- Integration of pictures and graphics into reports possible
- IQ/OQ documentation optional





System Requirements

So that the software can run on your computer with any problem, your computer must meet the following requirements:

Hardware Requirements:

- At least 1 GHz processor speed
- At least 1 GB working memory
- At least 1 GB free hard disc space
- USB (Universal Serial Bus)

Software requirements:

Operating system Microsoft® Windows Vista (32 Bit and 64 Bit)

- Windows 7 (32 Bit and 64 Bit) Windows 8 (32 Bit and 64 Bit)
- Windows 10 (32 Bit and 64 Bit)

Type	Description	Part No.
Winlog.pro	Professional evaluation software	1340-2355
IQ/OQ Winlog.	Installation and Operation Qualifications for Winlog.	1340-2286
pro	pro	



Evaluation Software for EBI 25 Data Loggers

Winlog.web

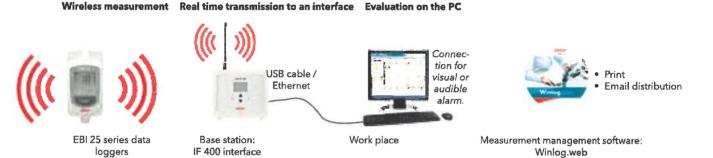
For programming and readout of EBI 25 data loggers as well as for evaluating the measurement values. The software automatically collects and evaluates data and alerts if necessary.

Functionality

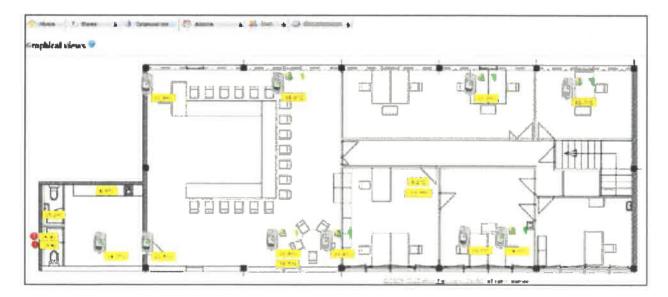
The innovative EBI 25 system monitors wirelessly, transmits the data in real time to an interface (base station) and from there to the desired server or PC.

As soon as a temperature, humidity or any other measurement has exceeded a user defined limit, an alarm is immediately sent via email.

Please find the EBI 25 Data Logger Family starting on page 62.



Quick graphical overview of all measurement points including an image or floor plan view:







Winlog.web











- Web based client/server solution: the measurement data can be evaluated on all PCs and smartphones via the internet or connected to the local network
- Very flexible and wide alarm management: alarm notifications upon user defined conditions, alarm notification via email; visual and audible alarm via the graphical user interface
- Connection of the interface IF 400 via USB and Ethernet
- FDA 21 CFR Part 11 data security functionality
- Management of larger data sets
- IQ / OQ documentation available

For users of the software Winlog.web ebro has designed an App called



- free of charge - to monitor the performance via smartphone.

System Requirements

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

Hardware requirements:

- Processor speed minimum 2 GHz
- Working memory 4 GB
- 20 GB free hard disc space
- USB (Universal Serial Bus)

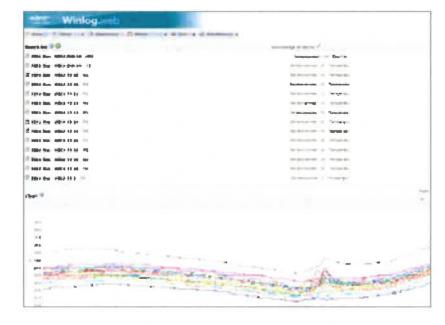
Software requirements:

Operating System Microsoft®

- Windows Vista (32 Bit and 64 Bit)
- Windows 7 (32 Bit and 64 Bit)
- Windows 8 (32 Bit and 64 Bit)
- Windows 10 (32 Bit and 64 Bit)

Further requirements:

- Mozilla Firefox 3.0
- Microsoft Internet Explorer 10



Туре	Description	Part No.
Winlog.web	Evaluation software (web-based server version)	1340-2390
	Installation Qualification and Operation Qualification	1340-2290
web	for Winlog.web	



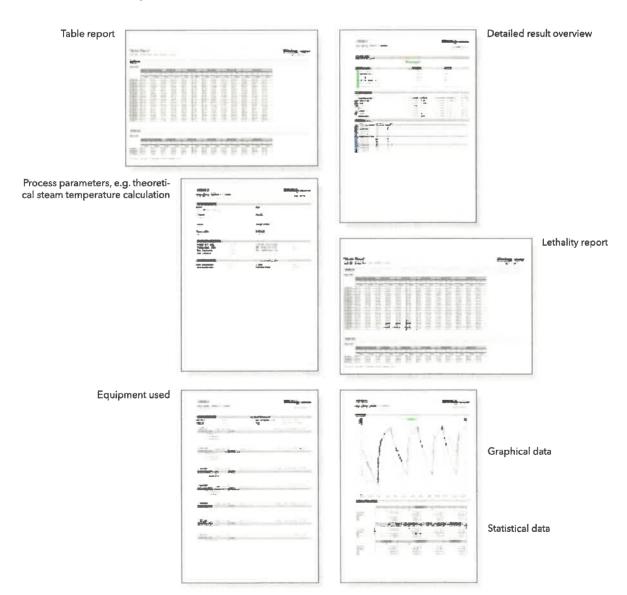
Evaluation Software for Pharmaceutical and Medical Applications

Winlog.med and Winlog.validation

The Winlog.med and Winlog.validation software versions is suitable for programming and readout of ebro data loggers as well as for evaluating the measurement values. The software guides you step by step through the validation or routine control process and evaluates the measurement automatically.

Flexible Report Generation

Whether you need a short process report or a table report with all measurement data - ebro's Winlog software makes it easy.









Winlog.med

For routine controls

- TÜV certified
- User-friendly
- High precision measurements
- Automatic report generation
- Automatic user-defined calculations
- Automatic identification of process cycles
- Creation of user-defined masters for spezific devices and thermal processes
- Three-dimensional demonstration of sensor placement or placement of the sensors directly on an application image possible
- FDA 21 CFR Part 11

Winlog.validation

For routine control and validation







Powerful report and evaluation software fitting the requirements of validation and qualification in Pharmaceutics and Medicine.

- TÜV Industrial Services certified
- User-friendly
- High precision measurements
- Automatic report generation
- Automatic user-defined calculations
- Automatic identification of process cycles
- Creation of user-defined masters for specific devices and thermal processes
- Three-dimensional demonstration of sensor placement or placement of the sensors directly on an application image possible
- FDA 21 CFR Part 11
- IQ / OQ available
- Automatic evaluation of validation processes

System Requirements

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

Hardware requirements:

- Processor speed minimum 1 GHz
- Working memory 1 GB
- 1 GB free hard disc space
- USB (Universal Serial Bus)

Software requirements:

- Windows Vista (32 Bit und 64 Bit)
- Windows 7 (32 Bit und 64 Bit)
- Windows 8 (32 Bit und 64 Bit) Windows 10 (32 Bit und 64 Bit)

Software requirements:	Туре	Description	Part No.
Operating System Microsoft®	Winlog.med	Standard evaluation software for routine controls	1340-2363
 Windows Vista (32 Bit und 64 Bit) Windows 7 (32 Bit und 64 Bit) Windows 8 (32 Bit und 64 Bit) 	Winlog. validation	Professional evaluation software for routine controls and validations	1340-2394
Windows 10 (32 Bit und 64 Bit)		Installation Qualification and Operation Qualification for Winlog.validation	1340-2287



Calibration

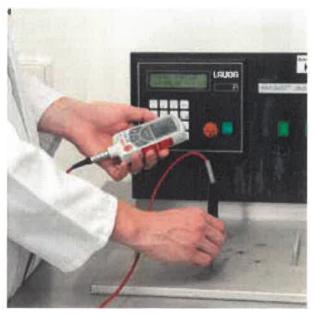
Precision measurement and testing equipment such as thermometers and data loggers should be checked and calibrated regularly.

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.







Calibration according to ISO 9000

Modern quality assurance systems like ISO 9000, QS 9000, GxP and FDA require testing and measuring equipment checks, which also include a regular calibration of these devices. ebro ISO calibration is an economical, fast and precise option for the fulfillment of these requirements.

- Calibration is done by calibration experts in a special laboratory.
- The results are documented in detail, including traceabilty information of the reference devices, in a so.called ISO certificate.
- Manufacturer-independent calibration, devices from other manufacturers can be calibrated.
- Calibration also includes device adjustment, if necessary (only for ebro devices).

We recommend that calibration be completed once per year for thermometers and pressure meters and once every 6 months for humidty meters. We will be happy to include you in our free ebro calibration reminder service.

The price for the calibration according to ISO 9000 includes certificate and **2 specified standard calibration points**. Freely selectable calibration points between -85 °C and +250 °C (-121 °F ... +482 °F) are available for a small fee.

The calibration of temperature / humidity loggers includes 2 to 3 humidity calibration points in the price. In addition a temperature calibration in the range of -40 °C ... +75 °C (-40 °F ... 167 °F) can be completed. Incoming and outgoing calibrations can be done on demand.

ISO Calibrations



Туре	Description	Part No.
EBI 12 - Family with 1 temperature channel	ISO Calibration	1020-3570
EBI 12 - Family with 2 temperature channels	ISO Calibration	1020-3571
EBI 12 - Family with 4 temperature channels	ISO Calibration	1020-3572
EBI 12 - Family with 1 pressure and 1 temp. channel	ISO Calibration	1020-3573
EBI 12 - Family with 1 pressure and 2 temp. channels	ISO Calibration	1020-3574
EBI 12 - Family with 1 pressure and 3 temp. channels	ISO Calibration	1020-3575
EBI 12 - Family with 1 humidity and 1 temp. channels	ISO Calibration	1020-3579
EBI 12 - Highly accurate pressure logger	ISO Calibration	1020-3578
EBI 12 - Temperature conductivity logger	ISO Calibration	1020-3577
PHT 830 / CT 830	ISO Calibration	1020-3530
EBI 40 with 6 temperature channels	ISO Calibration 1)	1020-3540
EBI 40 with 12 temperature channels	ISO Calibration 1)	1020-3541
EBI 11 - Family with 1 temperature channel	ISO Calibration	1020-3550
EBI 11 - Family with 1 pressure and 1 temp. channel	ISO Calibration	1020-3560
EBI 25 - Family with 1 temperature channel	3 Calibration points	1020-3580
EBI 25 - Family with 1 temperature channel	2 Calibration points	1020-3581
EBI 25 - Family with 1 humidity and 1 temp. channel	2x2 Calibration points	1020-3582
EBI 310 - With 1 temperature channel	ISO Calibration 1)	1020-3585
EBI 310 TE, EBI 310 DI - With 2 temperature channels	ISO Calibration 1)	1020-3586
EBI 310 TX - With 3 temperature channels	ISO Calibration 1)	1020-3587
EBI 310 TH	ISO Calibration 1)	1020-3588
TFX 430	ISO Calibration 1)	1020-3593
Additional calibration point	ISO Calibration	1020-3599
ISO calibrations of other devices on request.		

 Certified according to DIN EN ISO 9001: 2008

¹⁾According to DIN ISO 9000 including certificate.



DAkkS Calibration

DAkkS calibration is often needed for working standard measuring equipment, measuring equipment used by certified experts and for certain measurement procedures in medicine and pharmaceuticals - in other words, everywhere where an especially high degree of safety is required. This calibration is done by special DAkkS accredited laboratories that are monitored by the Physikalisch-Technische Bundesanstalt (PTB).

- Internationally recognized and comparable measurement results.
- DAkkS calibration is done by specially DAkkS authorized persons only.
- Traceable calibration in accordance with DIN EN ISO 9001 and DIN EN ISO/IEC 17025.
- Identification and documentation of the measurement uncertainty.
- Manufacturer-independent calibration, deviced from other manufacturers can be calibrated.

We recommend that calibration is completed once per year for thermometers and once every 6 months for pressure and humidty meters. We will be happy to include you in our ebro calibration reminder service free of charge.

The price for the DAkkS calibration includes certificate includes **3 freely selectable calibration points** in the range of -85 $^{\circ}$ C ... +300 $^{\circ}$ C (-121 $^{\circ}$ F ... +572 $^{\circ}$ F) or 10% ... 95% for humidity calibration.

With a pressure DAkkS calibration, the device is calibrated at 9 points. The calibration points cover the entire measuring range. Calibration takes place at room temperature, ie between +20 °C and +25 °C. Additional calibration points are available for a small fee.

DAkkS Calibrations



Туре	Description	Part No.
EBI 12 - Family with 1 temperature channel	DAkkS Calibration 2)	1020-3670
EBI 12 - Family with 2 temperature channels	DAkkS Calibration ²⁾	1020-3671
EBI 12 - Family with 4 temperature channels	DAkkS Calibration ²⁾	1020-3672
EBI 12 - Family with 1 pressure and 1 temp. channel	DAkkS Calibration 2)	1020-3673
EBI 12 - Family with 1 pressure and 2 temp. Channels	DAkkS Calibration ²⁾	1020-3674
EBI 12 - Family with 1 pressure and 3 temp. Channels	DAkkS Calibration ²⁾	1020-3675
EBI 12 - Family with 1 humidity and 1 temp. Channels	DAkkS Calibration ²⁾	1020-3679
EBI 12 - Highly accurate pressure logger	DAkkS Calibration 2)	1020-3678
EBI 40 with 6 temperature channels	DAkkS Calibration ²⁾	1020-3640
EBI 40 with 12 temperature channels	DAkkS Calibration ²⁾	1020-3641
EBI 11 - Family with 1 temperature channel	DAkkS Calibration ²⁾	1020-3650
EBI 11 - Family with 1 pressure and 1 temp. channel	DAkkS Calibration ²⁾	1020-3660
EBI 25 - Family with 1 temperature channel	DAkkS Calibration ²⁾	1020-3680
EBI 25 - Family with 1 humidity and 1 temp. channel	DAkkS Calibration ²⁾	1020-3682
EBI 310 - With 1 temperature channel	DAkkS Calibration ²⁾	1020-3685
EBI 310 TE, EBI 310 DI - With 2 temperature channels	DAkkS Calibration ²⁾	1020-3686
EBI 310 TX - With 3 temperature channels	DAkkS Calibration ²⁾	1020-3687
EBI 310 TH	DAkkS Calibration ²⁾	1020-3688
TFX 430	DAkkS Calibration ²⁾	1020-3693
Additional calibration point	DAkkS Calibration ²⁾	1020-3699
DAkkS calibrations of other devices on request.		
2) According to DAkkS (Traceabilit	y to German Standar	d) includina ce

²⁾According to DAkkS (Traceability to German Standard) including certificate.





Temperature Calibrations

Calibration type	Calibration object	Measurement range	Measurement conditions
ISO	Temperature measurementdevices with air and submersible sensors, Temperature data logger	>-85 °C +250 °C (-121 °F 482 °F) >+250 °C +1,000 °C (+482 °F +1,832 °F)	Temperature-regulated Liquid baths, Calibration source
DAkkS / DKD	Temperature measurement devices resistance thermometers, electronic thermometers and data loggers		lce point Water triple point Liquid bath Liquid bath Liquid bath Tube furnace
	Thermocouple	-85 °C +200 °C > +200 °C +300 °C	Liquid bath Liquid bath

Humidity Calibrations

Calibration type	Calibration object	Measurement range	Measurement conditions
ISO	Measurement devices for relative humidity	10 % 30 % 30 % 60 % 60 % 95 % Temperature range: +5 °C +70 °C (+41 °F +158 °F)	Two pressure humidity generator Temperature range: +5 °C to +70 °C (+41 °F to +158 °F)
DAkkS / DKD	Measurement devices for relative humidity	10 % 30 % 30 % 60 % 60 % 95 % Temperature range: +5 °C +70 °C (+41 °F +158 °F)	Two pressure humidity generator Temperature range: +5 °C to +70 °C (+41 °F to +158 °F)

Pressure Calibrations

Calibration typ	e Calibration object	Measurement range	Measurement conditions	
ISO	Absolute pressure	0 mbar 10,000 mbar	Pressure calibrator	
DAkk\$ / DKD	Absolute pressure	0 mbar 5,000 mbar	In gases	
		>5,000 mbar 25,000 mbar	In gases	

ISO Standard Calibration Points for ebro Products

Measurement device	Calibration points						
EBI 310	-20 °C	0°C	+60 °C				
EBI 310 TH	32,8% at +25 °C 0 °C	+20 °C	75,4% at +25 °C				
EBI 12 T (depends on device type)	0 °C	+60 °C	+134 °C				
EBI 12 TP (depends on device type)	100 mbar at +25 °C 0 °C	3,100 mbar at +25°C +60 °C	3,100 mbar at +134 °C +134 °C				
EBI 25 (depends on device type)	-20 °C	0 °C					



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Declarations



Hereby we declare

Xylem Analytics Germany Sales GmbH & Co. KG, ebro Peringerstraße 10 85055 Ingolstadt, Germany Phone: +49 841 95478-0

+49 841 95478-80 Fax:

that the following product

Data logger
EBI 12-Txxx / -TPxxx, EBI 16, EBI 11-Txxx / -Pxxx / -TPxxx, EBI 25-T / -TE / -TX / -TH, EBI 310, EBI 40-TC

is in compliance with the essential requirements and other relevant provisions of Directive 37/2005 EC.

The following harmonized standards have been used:

- Tests, performance, suitability: EN 12830 Periodic verification and calibration: EN 13486







Conditions of Delivery and Payment

May 2017. Changes reserved, Please find the latest version on our website: www.ebro.com/en/agb.html.

1. APPLICATION

Except as otherwise expressly agreed in writing, these conditions ("General Conditions") shall exclusively apply to all deliveries and services of XYLEM Analytics Germany Sales GmbH & Co. KG (in the following: Contract). Deviating conditions of the Purchaser shall not apply.

2. MINIMUM NET ORDER VALUE, VALIDITY OF QUOTATIONS, CUSTOM MADE PRODUCTS, EXCESS DELIVERIES AND CANCELLATION OF ORDERS, TRANSFER OF RISK

- 2.1The minimum net order value amounts to EUR 100. For orders below this amount Supplier reserves the right to charge handling costs of EUR 20.
- 2.2 Quotations are valid for thirty (30) calendar days from the date of issuance unless otherwise agreed in writing by Supplier, subject to prior sale. Supplier reserves the right to cancel or withdraw the quotation at any time with or without notice or cause prior to acceptance by the Purchaser. Supplier nevertheless reserves its right to accept any contractual documents received from the Purchaser after this 30-day period.
- 2.3The price for custom made products shall be separately agreed between the Parties.
- 2.4 Supplier shall have the right to deliver an excess quantity of up to 10% that has to be paid by Purchaser.
- 2.5If the Purchaser fully or partly cancels an order for non-custom made products without justification Supplier shall be entitled, notwithstanding the right to assert a higher damage that has actually been incurred due to the cancellation, to demand 10% of the sales price for the cancelled order volume as compensation for the processing and minimum loss of profits unless Purchaser establishes proof of a lower damage. The cancellation or amendment of an order for custom made products shall not be possible.

3. PRODUCT INFORMATION

All information and data contained in general product documentation and price lists, whether in electronic or any other form, are binding only to the extent that they are by reference expressly included in the Contract.

4. DRAWINGS AND DESCRIPTIONS

- 4.1 All drawings and technical documents relating to the Product or its manufacture submitted by one party to the other, prior or subsequent to the formation of the Contract, shall remain the property of the submitting party.
- 4.2 Drawings, technical documents or other technical information received by one party shall not, without the consent of the other party, be used for any other purpose than that for which they were provided. They may not, without the consent of the submitting party, otherwise be used or copied, reproduced, transmitted or communicated to a third party.
- 4.3 Supplier shall, not later than at the date of delivery of Products, provide free of charge information and drawings which are necessary to permit the Purchaser to erect, commission, operate and maintain the Product. Such information and drawings shall be supplied in the number of copies agreed upon or at least one copy of each. Supplier shall not be obliged to provide manufacturing drawings for the Product or for soare parts.

5. INSPECTIONS AND TESTS

5.1 Inspection

5.1.1 If expressly agreed in the Contract, the Purchaser shall be entitled to have the quality of the materials used and the parts of the Product, both during manufacture and when completed, inspected and checked by its authorised representatives. Such inspection and checking shall be carried out at the place of manufacture during normal working hours after agreement with Supplier as to date and time, and at the Purchaser's expense.

5.2 Tests

- 5.2.1 Acceptance tests provided for in the Contract shall, unless otherwise agreed, be carried out at the place of manufacture during normal working hours.
- 5.2.2 If the Contract does not specify the technical requirements, the tests shall be carried out in accordance with the Supplier's standard practice.
- 5.2.3 If the Purchaser in due time has requested in writing, Supplier shall notify the Purchaser in writing of the acceptance tests in sufficient time to permit the Purchaser to be represented at the tests. If the Purchaser is not represented, the test report shall be sent to the Purchaser and shall be accepted as accurate. With regard to standard products (as defined by Supplier from time to time) only a "production card" will be delivered with the Product stating that the Product has passed the

test procedure and thereby is approved. If requested by the Purchaser in writing and prior to the performance of the test, a test report will be sent to the Purchaser at an additional cost reasonably determined by Supplier.

- 5.2.4 If the acceptance tests show the Product not to be in accordance with the Contract, Supplier shall without delay remedy any deficiencies in order to ensure that the Product complies with the Contract. New tests shall then be carried out at the Purchaser's request, unless the deficiency in Supplier's sole opinion was insignificant.
- 5.2.5 Supplier shall bear all costs for acceptance tests carried out at the place of manufacture. The Purchaser shall however bear all costs and expenses for its representatives in connection with such tests. The Purchaser shall bear all costs for any optional tests requested by the Purchaser.

6. DELIVERY, PASSING OF RISK

6.1Any agreed trade term shall be construed in accordance with INCOTERMS 2010. If no trade term is specifically agreed, the delivery ("Delivery") shall be DAP, Purchaser's address as set out in the Purchaser's purchase order accepted by Supplier. However, Supplier's costs for DAP delivery shall be paid by Purchaser as set out in Clause 9.6 below.

6.2 Partial shipments shall be permitted unless otherwise agreed.

7. TIME FOR DELIVERY

7.1 Time for Delivery

if the Parties, instead of specifying the date for Delivery, have specified a period of time on the expiry of which Delivery shall take place, such period shall start to run as soon as the Contract is entered into, all official formalities have been completed, payments due at the formation of the Contract have been made, any agreed securities have been given and any other preconditions have been fulfilled.

7.2 Delay on part of Supplier

- 7.2.1 Any time periods specified by Supplier in the Contract for Delivery are to be treated as estimates whilst the Supplier shall make reasonable efforts to deliver on time. If Supplier anticipates that it will not be able to deliver the Product at the time for Delivery ("Delay"), Supplier shall inform the Purchaser thereof and, if possible, the time when Delivery can be expected.
- 7.2.2 If Delay is caused by any of the circumstances mentioned in Clause 14 or by an act or omission on the part of the Purchaser, including suspension under Clauses 9.4 or 14, the time for Delivery shall be extended by a period which is reasonable having regard to all the circumstances in the case. This provision applies regardless of whether the reason for the Delay occurs before or after the agreed time for Delivery.
- 7.2.3 In case of Delay, the Purchaser may in writing demand delivery within a final reasonable period which shall not be less than ninety (90) days from the Supplier's receipt of such demand. If Supplier does not deliver within such final period and this is not due to any circumstance for which the Purchaser is responsible or a Delay covered by Clauses 7.3 or 14, then the Purchaser may by notice in writing to Supplier terminate the Contract in respect of such part of the Product that cannot, in consequence of Supplier's failure to deliver, be used as intended by the Parties.

 THE PURCHASER SHALL IN NO EVENT BE ENTITLED TO ANY LIQUIDATED DAMAGES IN THE CASE OF DELAY.
- 7.2.4 If the Purchaser terminates the Contract due to Delay, it shall be entitled to compensation for the loss it has suffered as a result of Supplier's Delay. The total compensation shall not exceed, except in cases of intent or gross negligence, 10 percent of that part of the purchase price which is attributable to the part of the Product in respect of which the Contract is terminated.

7.3 Delay on part of the Purchaser

- 7.3.1 If the Purchaser anticipates that it will be unable to accept Delivery of the Product at the Delivery time, it shall forthwith notify Supplier in writing thereof, stating the reason and, if possible, the time when it will be able to accept Delivery.
- 7.3.2 If the Purchaser for any reason fails to accept Delivery at the Delivery time, it shall nevertheless pay any part of the purchase price which becomes due on Delivery, as if Delivery had taken place. Supplier shall arrange for storage of the Product at the risk and expense of the Purchaser. Any other direct and/or financial costs incurred as a result of such failure to accept Delivery shall be borne by the Purchaser. Supplier shall, if the Purchaser so requires in writing, insure the Product on behalf of the Purchaser and at the Purchaser's expense.
- 7.3.3 Unless the Purchaser's failure to accept Delivery is due to any such circumstance as mentioned in Clause 14, Supplier may by notice in writing require the Purchaser to accept Delivery within a final reasonable period.



7.3.4 If, for any reason for which Supplier is not responsible, the Purchaser fails to accept Delivery within such period, Supplier may by notice in writing terminate the Contract in whole or in part. Supplier shall then be entitled to compensation for the loss it has suffered by reason of the Purchaser's default. The compensation shall not exceed that part of the purchase price which is attributable to that part of the Product in respect of which the Contract is terminated.

8. ALTERATIONS AND CANCELLATION

- 8.1If the Purchaser requests an alteration of the Contract, and Supplier accepts such alteration (which acceptance shall not be unreasonably withheld), the alteration will be deemed as a new Contract entitling Supplier to a restart of the Delivery time which will start to run on the date of the approval in writing by Supplier of the alteration.
- 8.2 All additional costs incurred as a result of the alteration will be charged to the Purchaser, in addition to the purchase price.
- 8.3If the Purchaser cancels the Contract in whole or in part without cause, the Purchaser shall, unless otherwise agreed in writing, reimburse Supplier for (i) all costs and expenses incurred by Supplier under the Contract up until and including the date of cancellation, and (ii) any additional costs and expenses incurred as a result of the cancellation.

9. PRICES AND PAYMENT

- 9.1 The purchase price shall be the price for such Products set out in Supplier's price list as of the date for Delivery if not specifically set forth in the Contract. For domestic sales, payments shall be made within 30 days of the date of the invoice in the currency stipulated in the Contract, unless otherwise agreed in writing. For export sales, full payment in advance by telegraphic transfer is required in the currency stipulated in the Contract, unless otherwise agreed in writing.
- 9.2 Whatever the means of payment used, payment shall not be deemed to have been effected until Supplier's account has been fully and irrevocably credited.
- 9.3 If the Purchaser fails to pay by the stipulated date, Supplier shall be entitled to interest from the day on which payment was due. The statutory law interest rates shall apply.
- 9.4 In case of late payment, Supplier may suspend its performance of the Contract until payment is received.
- 9.5 Notwithstanding other rights to terminate the Contract under other clauses in these General Conditions, the Supplier shall, if the Purchaser has not paid the amount due within three (3) months, be entitled to terminate the Contract by notice in writing to the Purchaser and to claim compensation for the loss it has incurred.
- 9.6 Unless otherwise agreed to in writing, all prices are FCA Supplier's plant, and do not, even if Delivery is DAP in accordance with Clause 6.1 above, include transportation costs or charges relating to transportation. This means that in addition to the Product price, Purchaser shall compensate Supplier for all its transportation costs and charges, as set out in invoice from Supplier to Purchaser, despite that DAP delivery applies and such costs and charges shall thus be solely the responsibility of the Purchaser. Prices exclude special packing unless otherwise agreed to by Supplier in writing. All costs and taxes for packing shall be paid by the Purchaser as an additional charge. Such costs and charges are subject to change without notice.
- 9.7 The price for the Products does not include any applicable sales, use, excise, GST, VAT, or similar tax. The Purchaser shall have the responsibility for the payment of such taxes if applicable.
- 9.8 If, during the performance of the Contract, the financial condition of the Purchaser is such that Supplier in good faith and in application of usual banking standards deems a payment in time insecure, or if a material change in the ownership of the Purchaser occurs, or if the Purchaser fails to make any payments in accordance with the terms of its Contract with Supplier, then, in any such event, Supplier is not obligated to continue performance under the Contract and may stop goods in transit and defer or decline to make delivery of goods, except upon receipt of satisfactory security or cash payments in advance.
- 9.9 If the Purchaser fails to make payments or fails to furnish security satisfactory to Supplier, then Supplier shall have the right to enforce payment to the full Contract price of the work completed and in process.
- 9.10 Upon default by the Purchaser in payment when due, the Purchaser shall immediately pay to Supplier the entire unpaid amounts for any and all shipments made to the Purchaser irrespective of the terms of said shipment and whether said shipments are made pursuant to this Contract or any other contract of sale between Supplier or any of its affiliates and the Purchaser, and Supplier may withhold all subsequent shipments until the full amount its settled. Acceptance by Supplier of less than full payment shall not be a waiver of any of its rights hereunder.

10. WARRANTY, PURCHASER'S DUTIES IN WARRANTY CASES, REIMBURSEMENT OF EXPENSES, LIABILITY

- 10.1 Purchaser's warranty claims depend on his proper compliance with his statutory duties of examination and notification. Notifications have to include specific information on the alleged defect and shall be in writing. Notifications based on incomplete delivery or other obvious defects shall be notified to Supplier in writing without delay, but at the latest within 10 working days of the delivery arriving at its destination. Claims of Purchaser on account of a defectiveness or incompleteness are excluded if Purchaser fails to comply with this obligation.
- 10.2 In the case of product defects Supplier can elect to remove the defects or to provide a defectfree replacement. Only if this repeatedly fails or is unreasonable and the defect is not only insubstantial Purchaser is entitled to rescission or reduction of the purchase price in accordance with the statutory provisions. Sec. 478 BGB remains unaffected. Purchaser is entitled to claims for damages in accordance with Clause 10.5.
- 10.3 Concerning any replacement of products or removal of defects a warranty period of 3 months since delivery respectively the execution of service applies which runs, however, at least until the expiry of the warranty period of the original service (see Clause 10.7).
- 10.4 Purchaser has to inform Supplier immediately about each indication of product defects by his clients concerning Supplier's services. Should Purchaser not fulfil this obligation his claims for product defects against Supplier shall expire. Moreover, Purchaser has to safeguard proofs in adequate manner and to give Supplier the opportunity of examination at his request.
- 10.5 Supplier is liable without restriction under the Product Liability Act, in the event of an express assumption of a warranty or of a procurement risk or in the event of willful or grossly negligent violations of a duty. Supplier is also liable without restriction in the event of willful or negligent injury to life, physical well-being or health. In the event of Supplier's negligence (other than gross negligence) resulting in property or pecuniary damage, Supplier shall only be liable for a breach of essential contractual duties the fulfillment of which is inevitable for the proper performance of the contract and Purchaser can particularly rely on, however, limited to characteristic damages that were foreseeable at the time of signature.
- 10.6 No warranty is given for damages of all kind caused by improper treatment, change, installation and/or operation of the delivered product or by incorrect advice or instruction by Purchaser unless Supplier has caused those damages at least negligently.
- 10.7 Defect claims shall become time-barred after 12 months, or such longer period as set out in Supplier's price list and order confirmation, from the transfer of risk. The same applies to legal defects. In the event of wilful breaches of a duty, claims arising from tortious acts, the absence of a warranted quality, the assumption of procurement risks or personal injury, the statutory time periods apply. Secs. 438 para. 3, 479 and 634a para. 3 BGB remain unaffected.
- 10.8 A further-reaching liability for damages than that provided in the paragraphs of this Clause 10. is excluded without regard to the legal nature of the asserted claim.
- 10.9 The aforementioned restrictions of liability also apply, in terms of the reason and amount, in favour of Supplier's statutory representatives, employees and other vicarious agents.

11. ALLOCATION OF LIABILITY FOR DAMAGE CAUSED BY THE PRODUCT

- 11.1 Supplier shall not be liable for any damage to property or the environment caused by the Product after it has been delivered to the Purchaser. Nor shall Supplier be liable for any damage to products manufactured by the Purchaser, or to products of which the Purchaser's products form a part.
- 11.2 The Purchaser shall indemnify, defend and hold Supplier harmless to the extent that the Supplier incurs liability towards any third party in respect of loss or damage for which the Supplier is not liable according to the preceding paragraph.
- 11.3 If a claim for damages as described in this Clause 12 is lodged by a third party against one of the Parties, the latter party shall forthwith inform the other party thereof in writing.
- 11.4 Supplier and Purchaser shalf be mutually obliged to let themselves be summoned to the court or arbitral tribunal examining claims for damages lodged against one of them on the basis of damage allegedly caused by the Product.

12. CONFIDENTIALITY

The Parties agree that any information received from the other party in connection with the Contract that evidently or by its nature should reasonably be understood to be confidential, shall not be disclosed by the recipient to any third party without the prior written approval of the disclosing party, except to the extent (i) this is necessary for the receiving party to exercise rights and perform duties pursuant to the Contract, (ii) the information is available to the general public or later becomes publicly available other than through a breach of the Contract, (iii) the information is actually known to the receiving party on the date that such information is disclosed as evidenced



by written records in existence prior to the date of the receipt, (iv) the information is subsequently lawfully obtained by the receiving party from a third party or third parties, or (v) the information is independently developed by the receiving party prior to the disclosure.

13. FORCE MAJEURE

13.1 Either party shall be entitled to suspend performance of its obligations under the Contract to the extent that such performance is impeded or made unreasonably onerous by any of the following circumstances: industrial disputes and any other circumstance beyond the control of the parties such as pandemic, fire, earthquake, natural disaster, acts of God, war, extensive military mobilization, insurrection, requisition, seizure, embargo, acts of governments, strikes, lockouts, restrictions in the use of power and defects or delays in deliveries by sub-contractors ("Force Majeure").

- 13.2 The party claiming to be affected by Force Majeure shall notify the other party in writing without delay on the intervention and on the cessation of such circumstance.
- 13.3 If Force Majeure prevents the Purchaser from fulfilling its obligations, it shall compensate Supplier for expenses incurred in securing and protecting the Product.
- 13.4 Regardless of what might otherwise follow from these General Conditions, either party shall be entitled to terminate the Contract by notice in writing to the other party if performance of the Contract is suspended under this Clause 14 for more than six (6) months.
- 13.5 If the Purchaser terminates the Contract due to Force Majeure, the Purchaser shall, unless otherwise agreed in writing, reimburse Supplier for (i) all costs and expenses incurred by Supplier under the Contract up until and including the date of the termination and (ii) any additional costs and expenses incurred as a result of the termination.

14. ASSIGNMENT

The Purchaser shall not assign or transfer this Contract or any interest in it, or monies payable under it, without the prior written consent of Supplier and any assignment made without such consent shall be null and void. Supplier may assign its rights and/or delegate its duties in whole or in part to any affiliated company. Supplier shall notify Purchaser of any such assignment or delegation.

15. INVALIDITY

If any provision of this Contract is held to be illegal, invalid, or unenforceable by any court of competent jurisdiction, such provision will be of no force and effect, but the illegality, invalidity, or unenforceability will have no effect upon and will not impair the enforceability of any other provision of this Contract. The illegal, invalid or unenforceable provision shall be deemed to be substituted by a suitable provision which, to the extent legally permissible, comes as close as possible to the intent and purpose of the illegal, invalid or unenforceable provision. The same shall apply if the parties have unintentionally failed to address a certain matter in this Contract.

16. EXPORT REGULATIONS

The Purchaser has to comply with all legal provisions and administrative requirements as well as all other applicable laws, and in particular export regulations and the laws of the country in which the Purchaser operates. The Purchaser has to obtain all necessary approvals and licenses as well as all necessary permissions in good time, which are, according to all these applicable laws, required for the use or the export of the delivery item.

The Supplier is entitled to withhold his goods and services vis-à-vis the Purchaser if the Purchaser would violate those applicable laws or if not all necessary permissions are available and if this is not based on the Supplier's fault or responsibility.

The performance of the contract on the part of the Supplier is on condition that there are no opposing impediments due to national or international foreign trade legislation as well as embargos (and/or other sanctions).

The US Export Administration Regulations (EAR) are equally to be respected. Rights and duties of the Purchaser according to this clause endure after the expiration and premature termination of this Contract.

17. PLACE OF PERFORMANCE

Place of performance shall be the Supplier's place of business.

18. DISPUTES AND APPLICABLE LAW

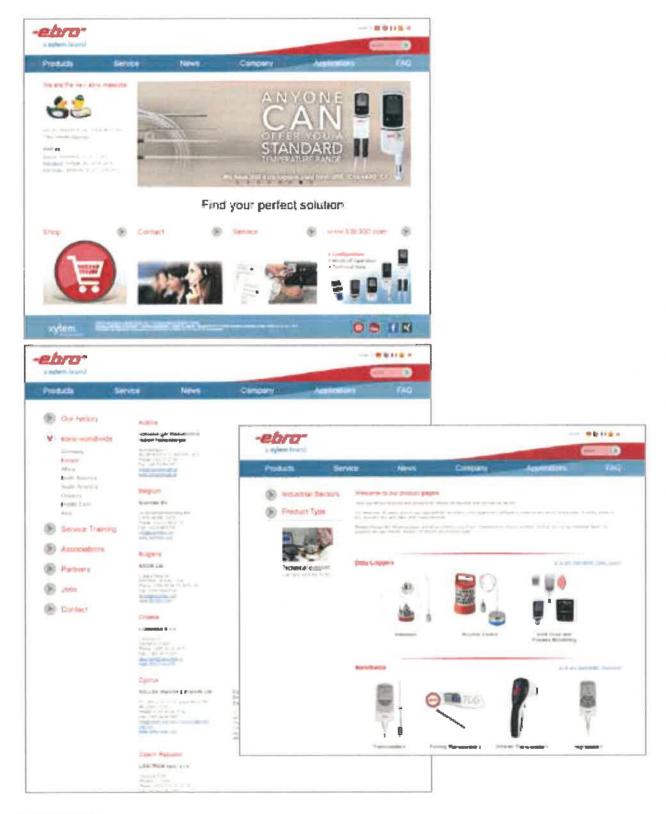
18.1 All disputes arising out of or in connection with the Contract shall be finally settled by the competent courts of Weilheim, Germany, yet it is in the discretion of the Supplier to initiate court proceedings also at the Purchaser's place of business or, in disputes regarding bills of exchange, at the place of payment of the bills of exchange.

18.2 The Contract shall be governed by the substantive law of Germany, excluding the application of the Convention on International Sales of Goods (CISG).





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Туре	Description		Part No.	Quantity
Produkt information - p	olease send us further informati	on about:		
ebro handheld inst	ruments	o		
ebro data loggers		o		
ebro software		<u> </u>		
ebro calibration se	rvice	o ,		4
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		Zip Code, City		
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Street		Fax		
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Index by Type

	40	2																							47	
		0																								
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АН	20	0																	 						65	
AH.	20	0																	 						73	
		Ō																								
ALI.	30	0	,					• ••	• • • •	• ••		• ••	• • • •						 		•	• ••	•		73	
)																								
AL.	U				-			• ••	٠	• ••	• ••	٠.,	• ••				• ••		 			• •	• •		32	
AL 1	02	·						٠.,				٠							 						32	
AL1	104	١																	 						32	
AL 1	108	١																	 						32	
AL 4	147						•	• • •	• • •	• ••	• • •	• ••	• • •		• • • •		• ••		 ** '		• ••		• •	•••	27	
AL.	112	١	•••			** *	•••	• ••	• ••	• ••	• ••	• ••	• • •	•••		• • •	• • • •		 		• • •	• •	• •	•••	32	
AL.	ПЗ	3	• • • •	,,,			••	• ••	,	٠	• ••	٠.,	• •			• • •			 •••		• ••	• ••	• •		40	
		3L																								
AL'	114	١									٠.,								 						40	
AL 1	115	i																	 						40	
		S																								
81 4	46	i	• • • •					• ••	• •	• ••	•••	• ••	• ••			• • •	• ••		 ***		• • •	•	•	•••	72	
ar e	200	í	• • • •		•••		•••	• ••	• ••	• ••	• ••	• "	• ••	• •	• • •	• • •	• ••		 ** '		• ••	• ••	•	•••	22	
M.	120	١						• ••	• •	٠.,	• ••	٠.,	٠.,						 •••		٠,,			٠.	67	
AL'	121	۱										٠							 						32	
AL 1	122	<u>.</u>																	 						32	
		S																								
AI 1	27	i						• ••	•••	• ••	• ••	• ••	• ••		• • •		• ••		 **		• ••	• ••	•	•••	E.A	
NL Al	14/		• • • •			40.	•••	• ••	••	• ••	• ••	• ••	•••	• •	• • •	• • •	• ••		 •••	• •• •	• ••	• ••	•	•••	24	
)																								
		۱																								
		2																								
		,																								
ML.	ادر	0.					•••	• ••	•••	• ••	• ••	• ••	•••	•	• • •	• • •	• • • •		 •••	• • •	• ••	• ••	•	•••	J4	
AL.	33[11						٠	• ••	. ~	٠	• ••	٠.,			• • •	• • • •		 ••		٠.,				54	
AL:	:30	12.							٠.,			٠,.	٠.						 					٠.	54	
AL:	130	3.																	 						54	
AN	14	1																	 						61	
AN	14	2																							61	
ΔN	14	4						• ••	- "	•	• ••	• ••	•				• • • •		 •		• • •	•••			61	
AT 6	120	CI	in.	da				• ••	• ••		•••	• ••	•••		• • •	• • • •	• • • •		 		• ••	• ••	•		54	
MI C))) () ph)	uei Di-	ï.		•	• ••	• ••	• ••	• ••	• "	•••	• •	• • •	• • •	• •••	• • • •	 ••	• •• •	• ••	• ••	•	•••	50	
41 9	350	, bi	151		ge	۲.,	••	• ••	• ••	• ••	• ••	• "	• • •	• • •	• • •	• • • •	• ••		 •••	***	• • •	• ••	•	•	30	
AI è	131) ph) ph	16	DH	ide	¥		• ••	• ••	• ••	• ••	• ••	• ••		• • •	• • •	• ••		 **		• ••	. ,,	•		50	
AI 8	330) pt	IK	Bir	ide	г.,	,,	• ••	• ••	٠.	٠.,	• ••	• ••				• ••		 44		• ••	٠.		٠.	56	
Bat	ter	ý										٠.,	٠						 			٠.,			67	
Пa	mi	Š																	 						32	
CT8	30	SE ny 0	Γ																 						55	
Dan	mn	nu f	51					• ••	• ••		• ••	•	• • •								• • •	• ••			32	
n		f	771		•	***	•	• ••	•••	• ••	•••	• ••	• • •	• • •	• • •	• • •	• • • •	• • • •	 •••	• • •	• ••	• ••	•	•••	22	
	1411	ny C ny 1	"		•••		•	• ••	• ••	* **	• ••	• ••	• ••	• • •	• • •	• • • •	• • • •	• • • •	 •		• ••	• ••	•		22	
		7	١.,	***																						
Dul							• • •		• • • •	• ••	٠.,	• •	٠		• • •	• • •	• ••		 •••	• ••	• ••	٠	•	•••	32	
Dui	Пn	ny C																	 						32	
Dui	mn ma	nu E					•••	• ••	• ••	• •	•••	• •	• ••	• • •	• • •	• • •	• • • •		 ••		• ••	• ••	•	•••	32	
Dui	mn ma	nu E					•••	• ••	• ••	• •	• ••	• •	• ••	• • •	• • •	• • •	• • • •		 ••		• ••	• ••	•	•••	32	
Dui	mn ma	nu E					•••	• ••	• ••	• •	• ••	• •	• ••	• • •	• • •	• • •	• • • •		 ••		• ••	• ••	•	•••	32	
Dui	mn ma	nu E					•••	• ••	• ••	• •	• ••	• •	• ••	• • •	• • •	• • •	• • • •		 ••		• ••	• ••	•	•••	32	
Dui	mn ma	nu E					•••	• ••	• ••	• •	• ••	• •	• ••	• • •	• • •	• • •	• • • •		 ••		• ••	• ••	•	•••	32	
Dui	mn ma	nu E					•••	• ••	• ••	• •	• ••	• •	• ••	• • •	• • •	• • •	• • • •		 ••		• ••	• ••	•	•••	32	
Dui Dui EBI EBI EBI EBI	11 11 11	NY E AB-2 - Fr - Fr - Fr	mi mi mi	ily	wit wit	h 1 h 1 h 1	pi pi te	res	sur sur per	re a	and and are	1 di di	ter ter an	np	. d	ian ian	nel nel		 						32 67 85 86 85 86	
Dui Dui EBI EBI EBI EBI	11 11 11 11	- Fi - Fi - Fi - Fi - Fi	ami ami ami ami	ily	wit wit wit	h 1 h 1 h 1	pi pi te te	res res	sur sur per per	re a	ind ind ire	11 di di	ter ter an	mp np ne	. d	ian	nel nel		 		• • • • • • • • • • • • • • • • • • • •				32 32 67 85 86 85 86 37	
Dui EBI EBI EBI EBI EBI EBI	77 11 11 11 11 11	NY E 18-22 - Fr - Fr - Fr - P1 - P1	mi mi mi mi mi mi	ily	wit wit wit	h 1 h 1 h 1	pi pi te	res	Sur Sur per per	re a	and ine	11 di di	ter ter an	mp mp ne	. d	nan nan	nel nel		 						32 67 85 86 85 86 37	
Dui Dui EBI EBI EBI EBI EBI	77 77 71 11 11 11 11	NY E - Ri - Ri - Ri - Pi - Pi - Pi	ami ami ami ami 00 11	ily	wit wit wit	h 1 h 1 h 1	propriete	res res em	sur sur per per	re a	ind ind ire	1 di di	ter ter an	np np ne	. d	ian ian	nel nel		 						32 67 85 86 85 86 37 37	
Dui Dui EBI EBI EBI EBI EBI EBI	mm 2/ 11 11 11 11 11	NY E NB 2 - Fa - Fa - Fa - Fa - Fa - Fa - Fa - Fa	ami ami ami ami 30.	ily	wit wit wit	h 1 h 1 h 1	propriete te	res res	sur sur per per	re a	and ind ire	1 dd dd	ter ter an	np np ne	. d	nan	nel nel		 						32 32 67 85 86 87 37 34 34	
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Dui Dui EBI EBI EBI EBI EBI EBI EBI	mm 2/ 11 11 11 11 11 11	NY E 18-2 1- Fr 1-	2 2 2 mi 2 mi 3 mi 3 0 . 3 1 . 3 3 3 .	ily	wit wit wit	h 1 h 1 h 1	pi te	res res em	sur sur per per	re a	and and are	11 dd dd	ter ter an an	np ne ne	. d	nan	nel nel		 						32 32 67 85 86 87 37 34 34 34	
Dui Dui EBI EBI EBI EBI EBI EBI EBI	mm 2/ 11 11 11 11 11 11 11	ny E 48-7 - R - R - R - R - P1 - P1 - T2 - T2 - T2	2 2 2 mi 2 mi 2 mi 3 mi 3 mi 3 mi 3 mi 3 mi 3 mi 3 mi	ily	wit wit wit	h 1 h 1 h 1	propriete te	res	sur sur per per	re a	and and are	1 di di	ter ter an	np np ne	. d	nan	nel nel								32 32 67 85 86 85 37 37 34 34 34	
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Duite Block of the Control of the Co	mmmmm	19	aminim	ilyi ilyi ilyi ilyi ilyi ilyi ilyi ilyi	with the with the wind the win	h1 h	pi pi te	res	per	e a cath	and dand dand dand dand dand dand dand	11111111111111111111111111111111111111	tterter terter t	mpnpnpnpnpnpnpnpnpnpnpnpnpnpnpnpnpnpnpn		hari hari hari hari hari hari hari hari	nel nel nel nel nel inel	5							32 67 88 86 86 87 33 34 33 33 85 86 86 86 86 86 86 86 86 86 86	
00000000000000000000000000000000000000	mmmmm	NY EN AND AND AND AND AND AND AND AND AND AN	amin mamin m	ilyilyilyilyilyilyilyilyilyilyilyilyilyi	with with with with with with with with	hh 1 hh	pi pi te	res	ssur personal personal persona	e a cather and the ca	and dand dand dand dand dand dand dand	111 dd dd 1111 dd dd 1111 dd dd 1111 dd dd	terterter terter terter terter terter terter terter terter ter	mpnpnpnpnpnpnpnpnpnpnpnpnpnpnpnpnpnpnpn		hari hari hari hari hari hari hari hari	nel nel nel nel nel nel	55.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5							32 67 88 88 88 88 88 88 88 88 88 8	
00000000000000000000000000000000000000	mmmmm	NY EN AND AND AND AND AND AND AND AND AND AN	amin mamin m	ilyilyilyilyilyilyilyilyilyilyilyilyilyi	with with with with with with with with	hh 1 hh	pi pi te	res	ssur personal personal persona	e a cather and the ca	and dand dand dand dand dand dand dand	111 dd dd 1111 dd dd 1111 dd dd 1111 dd dd	terterter terter terter terter terter terter terter terter ter	mpnpnpnpnpnpnpnpnpnpnpnpnpnpnpnpnpnpnpn		hari hari hari hari hari hari hari hari	nel nel nel nel nel nel	55.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5							32 67 88 88 88 88 88 88 88 88 88 8	
Duite Billion	mmmmm	TYPE TO THE PROPERTY OF THE PR	2 mamin minimin minimi	ilyilyilyilyilyilyilyilyilyilyilyilyilyi	with with the wind th	h 1 h 1 h 1 h 1 h 1 h 1 h 1 h 1 h 1 h 1	p p p te	res	ssur personal personal persona	e a cather a	and dand dand dand dand dand dand dand	11111111111111111111111111111111111111	terterter terter	mpnne mmpnne mpnnnpnpnpnpnpnpnpnpnpnpnpnpnpnpnpnpnpn	d d d d d d d d d d d d d d d d d d d	hhar haan haan haan haan	nel	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5							32 32 32 33 34 33 34 33 34 33 34 34 34	
Duite Billion	mmmmm	TYPE	2	ilyilyilyilyilyilyilyilyilyilyilyilyilyi	with with the wind th	h 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	pi pi te	res	ssurissuri perindidi inidi issuri perindidi issuri perindidi issuri perindidi issuri perindidi issuri perindidi issuri perindi issuri perindi issuri perindi issuri perindi issuri perindi issuri i issuri i issuri i issuri i issuri i i i i i i i i i i i i i i i i i i	e a cather a	and dand dand dand dand dand dand dand	11111111111111111111111111111111111111	terterterterterterterterterterter	mppnpenenenenenenenenenenenenenenenenene	d d d d d d d d d d d d d d d d d d d	hhar haan haan haan haan	nel	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5							32267588685863773344334334334858688888888888888888888888	
00000000000000000000000000000000000000	mmmm22/311111111111111111111111111111111	19	2	ily	wit	h 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	pi pi te	res	nididinidinidinidinidinidinidinidinidin	in the state of th	and dand dand dand dand dand dand dand	1111ddd	terterter terterterterter	mpnpnpnpnpnpnpnpnpnpnpnpnpnpnpnpnpnpnpn	d d d d d d d d d d d d d d d d d d d	har har haan haan haan haan haan	nel nel nel nel nel nel	5 S.							322 327 327 327 337 334 334 334 335 338 338 338 338 338 338 338 338 338	
00000000000000000000000000000000000000	mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm	19	2	ily	wit	h 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	pi pi te	res	ssurissurissurissurissurissurissurissur	in the second se	and dand ure the same and	11111111111111111111111111111111111111	terterter terterterterter	mpnpnpnpnpnpnpnpnpnpnpnpnpnpnpnpnpnpnpn	d d d d d d d d d d d d d d d d d d d	harnan harnan haan haan haan haan	nel nel nel nel nel nel	\$ 5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.							322 327 327 327 337 334 334 334 335 338 338 338 338 338 338 348 358 368 37 37 37 37 37 37 37 37 37 37 37 37 37	
00000000000000000000000000000000000000	mmmmm	19	2	ilyi ilyi ilyi ilyi ilyi ilyi ilyi ilyi	with with the wind th	h 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	property to the test to the te	res	ssurinididi inidi inididi inididi inidi	thy see a state of the state of	and dand ure tree tree tree tree tree tree tree	11111111111111111111111111111111111111	terter terter terter terter terter terter ter	mpn ne en	d d d d d d d d d d d d d d d d d d d	haran haran haran haran haran	nel nel nel nel nel nel	\$ 5 S.							322 327 488 488 588 588 588 588 588 588 588 588	
00000000000000000000000000000000000000	mmmmm	19	2	ilyi ilyi ilyi ilyi ilyi ilyi ilyi ilyi	with with the wind th	h 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	property to the test to the te	res	ssurinididi inidi inididi inididi inidi	thy see a state of the state of	and dand ure tree tree tree tree tree tree tree	11111111111111111111111111111111111111	terter terter terter terter terter terter an an an an an an an an an an an an an	mpn ne en	d d d d d d d d d d d d d d d d d d d	haran haran haran haran haran	nel nel nel nel nel nel	\$ 5 S.							322 327 488 488 588 588 588 588 588 588 588 588	
During (1)	The state of the s	**************************************	2	1. lylylylylylylylylylylylylylylylylylyly	with the wind the win	h 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	pi pi te	resseresseresseresseresseresseresseres	ssurinididi inidi inid	thy see a sea to the s	and dand dand dand dand dand dand dand	11111111111111111111111111111111111111	terter terter terter terter terter terter terer an an an an an an an in in in in in in in in in in in in in	mpp	d d d d d d d d d d d d d d d d d d d	haran haran haran haran haran	nel nel nel nel nel nel	\$ 5 S.							32 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3	
Du Du Du Billion Bill	The state of the s	19	2	ilyilyilyilyilyilyilyilyilyilyilyilyilyi	with with with which with with with with with with with wit	h 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	pi pi te	resseresseresseresseresseresseresseres	nidia inidia ini	ity year and an	and dand dand dand dand dand dand dand	11111111111111111111111111111111111111	teretere teretere teretere annan an	mpnpnpnpnpnpnpnpnpnpnpnpnpnpnpnpnpnpnpn	d d d d d d d d d d d d d d d d d d d	harn harn harn harn harn harn harn harn	nel	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5							32 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3	

EBI 12-T441-EX
EBI 12-T461
EBI 12-T462
EBI 12-T464
EBI 12-T470
EBI 12-T480
EBI 12-T490
EBI 12-T690
EBI 12 - Temperature conductivity logger
EBI 12-TH100-EX 26 EBI 12-TP190 24
EBI 12-TP222 20 EBI 12-TP231 21
EBI 12-TP231-EX
EBI 12-TP234
EBI 12-TP322
EBI 12-TP451
EBI 12-TP460
EBI 25 - Family with 1 humidity and 1 temp. channel
EBI 25 - Family with 1 humidity and 1 temp. channel
EBI 25 - Family with 1 temperature channel
EBI 25-T
EBI 25-TH
EBI 25-TX
EBI 40-TC-02
EBI 40-WH
EBI 40 with 6 temperature channels
EBI 40 with 12 temperature channels
EBI 310
EBI 310TE
EDI 3 TO TE, EDI 3 TO DI - WITH Z temperature channels
EBI 310 TE, EBI 310 DI - With 2 temperature channels
EBI 310TH
EBI 310 TH
EBI 310 TH
EBI 310 TH .73 EBI 310 TH .85 EBI 310 TH .86 EBI 310 TX .73 EBI 310 TX .73 EBI 310 TX .85
BB 310 TH
BB 310 TH
BB 310 TH
EBI 310 TH .85 EBI 310 TH .86 EBI 310 TH .86 EBI 310 TX .73 EBI 310 TX .85 EBI 310 TX .85 EBI 310 - With 1 temperature channels .86 EBI 310 - With 1 temperature channel .85 EBI 310 - With 1 temperature channel .86 EBI DA- .32 EBI FAS .32 EBI FLS
EBI 310 TH .85 BBI 310 TH .86 BBI 310 TH .86 BBI 310 TX .73 BBI 310 TX .85 BBI 310 TX .85 BBI 310 TX .85 BBI 310 TX .85 BBI 310 With 1 temperature channel .86 BBI AB .32 BBI AB .32 BBI FAS .32 BBI FASO .57 BBI FASO .57 Sealing Manual Association .85
EBI 310 TH
EBI 310 TH
BB 310 TH
EBI 310 TH
EBI 310 TH
EBI 310 TH .85 EBI 310 TH .85 EBI 310 TH .86 EBI 310 TX .73 EBI 310 TX .85 EBI 310 TX .85 EBI 310 TX .85 EBI 310 With 1 temperature channels .86 EBI 310 - With 1 temperature channel .86 EBI DA .32 EBI IFA .32 EBI IFB .32 EBI NI-140 .32 EBI TB .32 <t< th=""></t<>
EBI 310 TH .85 EBI 310 TH .86 EBI 310 TK .85 EBI 310 TX .85 EBI 310 With 1 temperature channel .86 EBI DA .32 EBI DASet .32 EBI FLS
EBI 310 TH .85 EBI 310 TH .86 EBI 310 TH .86 EBI 310 TX .73 EBI 310 TX .85 EBI 310 TX .85 EBI 310 TX .85 EBI 310 TX .85 EBI 310 With 1 temperature channels .86 EBI 2BI 310 With 1 temperature channel .86 EBI DA .32 EBI DASet .32 EBI FLS .32 EBI FB 30 .67 EBI FB 30 .57 EBI FB 30 .57 EBI FB 400-01 .61 LO/OW Winlog Pro .79 LO/OW Winlog Aidation .83 LO/OW Winlog Aidation .83 LO/OW Winlog Web .81 PH 830 / CI 830 .85 PHR 800 / CI .85 S1100 .32 S1100 .32 S1100 .32 S1200 .32 S1210 .40 S1210 .32 S1210 .32 S1210 .32
EBI 310 TH .85 EBI 310 TH .86 EBI 310 TM .86 EBI 310 TX .73 EBI 310 TX .85 EBI 310 TX .85 EBI 310 TX .85 EBI 310 With 1 temperature channels .86 EBI 310 With 1 temperature channel .86 EBI DA .32 EBI DASet .32 EBI FA .32 EBI FB AD .67 EBI FB AD .67 EBI FB AD .67 EBI FB AD .67
EBI 310 TH .85 EBI 310 TH .85 EBI 310 TH .86 EBI 310 TX .73 EBI 310 TX .85 EBI 310 TX .85 EBI 310 TX .85 EBI 310 - With 1 temperature channels .86 EBI 310 - With 1 temperature channel .86 EBI DA .32 EBI IFA .32 EBI IFB A00 .61 LO/OW Winlog validation .83 LO/OW Winlog validation .83 LOYOW Winlog validation .83 PHT 830 / CH 830 .85 PHT 830 SET 1 .55 PHT 830 SET 1 .55 PHT 830 SET 1 .55<

SL4013	.48
SL4014	.48
SL 4102	.48
SL4121	
SL4122	
SL 4123	
SL4124	
SL4125	49
SL4211	
Spo-pro BASIC	
Spo-pro-CLASSIC.	
Spo-pro PROFESSIONAL	
TDS 3.	
TFX 430	20
TFX 430	
TPH 500	.00
TPX 25-3	
TPX 25-5	
TPX 25-7,5	
TPX 25-10	.65
TPX 220	-14
TPX 220-3	
TPX250	
TPX 310	
TPX 310-P1	
TPX 310-P2	
TPX 310-P3	
TPX 310-P4	
TPX 310-P5	.74
TPX 310-P6	.74
TPX 310-P7	.74
Winlog.med	
Winlog.pro.	
Winlog validation	
Winlon weh	



Index by Part No.

	, , , , , , , , , , , , , , , , , , , ,	
1020-3530		1340-2257
		1340-2258
		1340-2259
1020-3550		1340-2286
		1340-2287
1020,3300		
		1340-2290
1020-3571		1340-2355
1020-3572	85	1340-2363
		1340-2390
1020-3373		
		1340-2390
1020-3575		1340-2394
		1340-5625
		1340-5625
1020-3579		1340-5626
		1340-5626
		1340-5627
1020-3582		1340-5627
1020-3585		1340-5800
		1340-5812
		1340-5831
1020-3588		1340-5835
		1340-6007
		1340-6011
1020-3640		1340-6020
1020-3641		1340-6021
1020.2450		1340-6022
		1340-6023
		1340-6024
		1340-6052
		1340-6061
1020-3673		1340-6061
1020-3674		1340-6062
		1340-6063
		1340-6064
		1340-6064
		1340-6068
		1340-6069
		1340-6086
		1340-6087
1020-3687		1340-6088
		1340-6095
		1340-6193
1020-3699		1340-6200
1100-0118		1340-6201
		1340-6202
1100-0121		1340-6204
1100-0125		1340-6210
1100-0126		1340-6211
		1340-6215
		1349-6233
		1340-6270
1220-0350		1340-6271
		1340-6272
	54	1340-6291
		1340-6295
1248-0190		1340-6296
		1340-6297
	32	1340-6298
		1340-6299
1248-3302		1340-6331
		1340-6336
	44	1340-6337
		1340-6338
1250-1201	45	1340-6339
1250-1221	50	1340-6341
	46	1340-6344
		1340-6400
1250-2001		1340-6401
		1340-6430
		1340-6431
****		1340-6600
1250-4002		1340-6600-EX
1250-4003		1340-6601
1250-4004		1340-6602
1250 4044	48	1340-6603
1250-4012		1340-6604
1250-4013		1340-6604-EX
		1340-6605
	48	1340-6606
	49	1340-6607
		1340-6608
	49	1340-6609
	49	1340-6614
		1340-6615
		1340-6616
1339-0660		1340-6617
	56	1340-6623
1337.000		
		1340-662414
		1340-6625
		1340-6626
	40	1340-6627
		1340-6629-EX
		1340-6635
1340-1894		1340-6648
		1340-6652
		1340-6653
1240 4004		1340-6655
		1340-6662
1340-2005		1340-6697
		1341-0025
1.190-7756		1341-0026

1341-0027
1341-0028
1341-2629
1341-6332
1341-6332-0100
1341-6333
1341-6335
1341-6337
1341-6338
1341-6339
1341-6340
1341-6341
1341-6342
1341-6343
1341-6344
1343-2626
1343-2627
10 10 mem

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