



# Data Logger Series EBI 12

FOR MONITORING, PROCESS- AND ROUTINE CONTROL AS WELL AS VALIDATION OF PROCESSES

- Equipment for process validation in steam sterilizer, H<sub>2</sub>O<sub>2</sub>-, formaldehyde- and EtO-sterilizer, washer-disinfectors and washer-disinfectors for endoscopes
- Data Logger to measure temperature, pressure, fine vacuum, humidity and conductance
- ATEX types available
- TÜV certified



- Just contact us if you would like additional information or an individual offer. We're here to help!
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# Technical Specifications

## EBI 12 SERIES

### Operating temperature und range of the temperature logger:

Temperature logger	-90 °C ... +150 °C*
Temperature logger with cable probes	-20 °C ... +150 °C*
Temperature logger with bendable probes	-200 °C ... +400 °C*
Pressure logger	0 °C ... +150 °C
Low pressure logger	1 mbar ... 4,000 mbar 0 °C ... +85 °C
Humidity logger	0,1mbar ... 1,050 mbar (0.1Torr ... 790Torr) 0 °C ... +85 °C
Conductivity logger	0 % rH... 100 % rH 0 °C ... +125 °C 1 ... 2,000 µS/cm

Accuracy:	Temperature	± 0,05°C (120 ... 140°C)*
	Pressure	± 0,1 °C (0 °C ... +120 °C und 140 ... 150°C)* ±10 mbar (50...150mbar, 2,050...2,250 mbar and 3,000...3,250 mbar) ±15 mbar (remaining measurement range)
	Low pressure	± 0.25 mbar (0.1 ... 50 mbar) (± 0.2 Torr (0.1 ... 37.5Torr)) ± 5% of measured value (50 ... 100 mbar) ± 1% FS (100 ... 1,050 mbar)
	Humidity Conductivity	± 2 % rH, non-condensing at 25 °C ± 0.5 µS/cm (1 ... 100 µS/cm ) ± 1 % of measured value (100 ... 2,000 µS/cm)

Resolution:	Temperature	0.01 °C
	Pressure	1 mbar
	Low pressure	0.1 mbar (0.1Torr)
	Humidity	0.1 % rH
	Conductivity	0.1 µS/cm

Memory Sensor:	Temperature	Max. 100.000 measurements (total)*
	Pressure	Pt 1000, class A
	Humidity	Piezoresistive pressure sensor (temperature compensated)
	Conductivity	Capacitive combined sensor replaceable Conductivity electrode (temperature compensated)

Interval	250 ms ... 24 h*
Measurement mode	• Endless mode • Measure upon start time • Start immediately until end of memory • Start- / Stop measurement

Battery	Lithium battery (3,6 V), replaceable
Dimension	(Ø x H) 48 mm x 24 mm**
Housing	316 L stainless steel / PEEK
Protection class	IP 68 *
Certificate	Factory calibration certificate

\* Deviating specifications can be found in the product descriptions.  
\*\* Dimensions and weight refer to the EBI 12 housing only.

Interfaces, software and accessories of  
the EBI 10 series are compatible!

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# EBI 12 Temperature – Data Logger

for Monitoring, Process- and Routine control as well as Validation of Processes

## RED LINE

### EBI 12-T100

The new EBI 12 data logger series with complete revised housing, new electronics and improved probes

- 316 L stainless steel housing
- Range from -90 °C to 150 °C
- High accuracy up to 0,05 °C
- ATEX certified

#### Technical specification

Operating temperature and range:	-90 °C ... +150 °C
Accuracy	± 0,5 °C (-90 °C ... -40 °C) ± 0,2 °C (-40 °C ... 0 °C) ± 0,1 °C (0 °C ... +120 °C) ± 0,05 °C (+120 °C ... +140 °C) ± 0,1 °C (+140 °C ... +150 °C)
Resolution:	0,01 °C
Memory	100,000 values
Sensor:	Pt 1,000, class A
Sampling rate:	250 ms ... 24 h
Storage temperature	0 °C ... +125 °C
Modi	<ul style="list-style-type: none"> <li>• Endless</li> <li>• Measure upon start time</li> <li>• Measure until end of memory</li> <li>• Start- / Stop</li> </ul>
Battery	Lithium battery (3,6 V), user replaceable
Dimensions	(Ø x H) 48 mm x 24 mm
Weight	approx. 110 g
Housing material	316 L stainless steel / PEEK
Protection class	IP 68
Certificate	Factory calibration certificate



**Universal usable**  
**e.g. bedpan washer,**  
**autoclave**

**ATEX-Type**



Type	Description	Part. No
EBI 12-T100	Internal	1340-6600
EBI 12-T100-EX	Internal temperature sensor	1340-6600-EX

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# EBI 12 Temperature – Data Logger

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## BLUE LINE

### EBI 12-T101

The new EBI 12 data logger series with complete revised housing, new electronics and improved probes

- 316L stainless steel housing
- Range from -90°C to 85°C
- High accuracy up to 0,3 °C
- Up to 1000 hours at -85°C

#### Technical specification

Operating temperature and range:	-90 °C ... +85 °C
Accuracy	± 0,5°C (-90 ... -40°C) ± 0,3°C (-40 ... 85°C)
Resolution:	0,01 °C
Memory	27.000 values
Sensor:	Pt 1000, Class A
Interval	1s ... 24 h
Storage temperature	0 °C ... +125 °C
Modi	<ul style="list-style-type: none"> <li>• Endless</li> <li>• Measure upon start time</li> <li>• Measure until end of memory</li> <li>• Start- / Stop</li> </ul>
Battery	Lithium battery (3,6 V), user replaceable
Dimensions	(Ø x H) 48 mm x 24 mm
Wight	Ca. 110 g
Housing material	316 L stainless steel / PEEK
Protection class	IP 68
Certificate	Factory calibration certificate



**Special for deep temperature use.**

**e.g. Dry ice**

Type	Description	Part. No
EBI 12-T101	Intern	1340-6601

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# EBI 12 Temperature – Data Logger

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### EBI 12-T21X

The new EBI 12 data logger series with complete revised housing, new electronics and improved probe

- 316 L stainless steel housing
- Radial probe
- Temperature probe 3 mm, pointed
- Range from -40 °C to 150 °C
- High accuracy up to 0,1 °C



e.g. in cans

#### Technical specification

Operating temperature and range:	-40 °C ... +125 °C
Accuracy	± 0,1 °C (0 °C ... 150 °C) ± 0,3 °C (-40 °C ... 0 °C)
Resolution:	0,01 °C
Memory	27,000 values
Sensor:	Pt 1,000, class A
Sampling rate:	1 s ... 24 h
Storage temperature	0 °C ... +125 °C
Modi	<ul style="list-style-type: none"> <li>• Endless</li> <li>• Measure upon start time</li> <li>• Measure until end of memory</li> <li>• Start- / Stop</li> </ul>
Battery	Lithium battery (3,6 V), user replaceable
Dimensions	(Ø x H) 48 mm x 24 mm
Weight	approx. 110 g
Housing material	316 L stainless steel / PEEK
Protection class	IP 68
Certificate	Factory calibration certificate

Type	Description	Part. No
EBI 12-T210	L = 50 mm	1340-6602
EBI 12-T211	L = 75 mm	1340-6603

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### EBI 12-T22X

The new EBI 12 data logger series with complete revised housing, new electronics and improved probes

- 316 L stainless steel housing
- Radial probe
- Probe 1,5 mm bendable
- Range from -200 °C to 400 °C
- High accuracy up to 0,05 °C
- Radio mode for real time monitoring
- ATEX certified

#### Technical specification

Operating temperature	-90 °C ... +150 °C
Range	-200 °C ... +200 °C (EBI 12-T220) -200 °C ... +400 °C (EBI 12-T221)
Accuracy	± 1,5°C (-200 °C ... -85°C) ± 0,5°C (-85 °C ... -40°C) ± 0,2°C (-40 °C ... 0°C) ± 0,1 °C (0 °C ... +120 °C) ± 0,05°C (+120 °C ... +140 °C) ± 0,1°C (+140 °C ... +150 °C) ± 0,5°C (+150 °C ... +250 °C) ± 0,8°C (+250 °C ... +400 °C)
Resolution:	time < 5 sec (in 24h) 0,01 °C
Memory	Max. 100,000 values
Sensor:	Pt 1,000, class A
Sampling rate:	250 msec ... 24 h
Storage temperature	0 °C ... +125 °C
Modi	• Endless • Measure upon start time • Measure until end of memory • Start- / Stop
Battery	Lithium battery (3,6 V), user replaceable
Dimensions	(Ø x H) 48 mm x 24 mm
Weight	approx. 110 g
Housing material	316 L stainless steel / PEEK
Protection class	IP 68
Certificate	Factory calibration certificate



For drain in Sterilizers

ATEX-Type



Type	Description	Part. No
EBI 12-T220	L = 250 mm	1340-6604
EBI 12-T221	L = 500 mm	1340-6605
EBI 12-T220-EX	L = 250 mm	1340-6604-EX

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# EBI 12 Temperature – Data Logger

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### EBI 12-T23X

The new EBI 12 data logger series with complete revised housing, new electronics and improved probes

- 316 L stainless steel housing
- Axial probe
- M5 thread at the probe
- 1 channel
- Probe 3 mm, pointed
- Range from -40 °C to 150 °C
- High accuracy up to 0,1 °C

#### Technical specification

Operating temperature and range:	-40 °C ... +150 °C
Accuracy	± 0,1°C (0 °C ... +150°C) ± 0,3°C (-40 °C ... 0°C)
Resolution:	0,01 °C
Memory	27,000 values
Sensor:	Pt 1,000, class A
Sampling rate:	1 s ... 24 h
Storage temperature	0 °C ... +125 °C
Modi	<ul style="list-style-type: none"> <li>• Endless</li> <li>• Measure upon start time</li> <li>• Measure until end of memory</li> <li>• Start- / Stop</li> </ul>
Battery	Lithium battery (3,6 V), user replaceable
Dimensions	(Ø x H) 48 mm x 24 mm
Weight	approx. 110 g
Housing material	316 L stainless steel / PEEK
Protection class	IP 68
Certificate	Factory calibration certificate



**Ideal in cans for  
pasteurization control**

Type	Description	Part. No
EBI 12-T230	L = 50 mm	1340-6606
EBI 12-T231	L = 75 mm	1340-6607
EBI 12-T232	L = 100 mm	1340-6608
EBI 12-T233	L = 150 mm	1340-6609

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# EBI 12 Temperature – Data Logger

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## RED LINE

### EBI 12-T24X

The new EBI 12 data logger series with complete revised housing, new electronics and improved probes

- 316 L stainless steel housing
- Axial probe
- 1 Temperature channel
- Probe 1,5 mm bendable
- Range from -200 °C to 200 °C
- High accuracy up to 0,05 °C
- Radio mode for real time monitoring

#### Technical specification

Operating temperature:	-90 °C ... +150 °C
Range:	-200 °C ... +200 °C
Accuracy:	± 1,5°C (-200 °C ... -85°C) ± 0,5°C (-85 °C ... -40°C) ± 0,2°C (-40 °C ... 0°C) ± 0,1 °C (0 °C ... +120 °C) ± 0,05°C (+120 °C ... +140 °C) ± 0,1°C (+140 °C ... +150 °C) ± 0,5°C (+150 °C ... + 200 °C)
Resolution:	time < 5 sec (in 24h) 0,01 °C
Memory	100,000 values
Sensor:	Pt 1,000, class A
Sampling rate:	250 ms ... 24 h
Storage temperature	0 °C ... +125 °C
Modi	• Endless • Measure upon start time • Measure until end of memory • Start- / Stop
Battery	Lithium battery (3,6 V), user replaceable
Dimensions	(Ø x H) 48 mm x 24 mm
Wight	approx. 110 g
Housing material	316 L stainless steel / PEEK
Protection class	IP 68
Certificate	Factory calibration certificate



In Washer-disinfector or  
H<sub>2</sub>O<sub>2</sub> Sterilization

Type	Description	Part. No
EBI 12-T240	L = 250 mm	1340-6611
EBI 12-T241	L = 500 mm	1340-6612

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# EBI 12 Temperature – Data Logger

for Monitoring, Process- and Routine control as well as Validation of Processes

## RED LINE

### EBI 12-T421

The new EBI 12 data logger series with complete revised housing, new electronics and improved probes

- 316 L stainless steel housing
- Radial probes
- 2 temperature channels
- Probes 1,5 mm bendable
- Range from -200 °C to 400 °C
- High accuracy up to 0,05 °C
- Radio mode for real time monitoring

#### Technical specification

Operating temperature:	-90 °C ... +150 °C
Range:	-200 °C ... +200 °C (EBI 12-T220) -200 °C ... +400 °C (EBI 12-T221)
Accuracy:	± 1,5 °C (-200 °C ... -85 °C) ± 0,5 °C (-85 °C ... -40 °C) ± 0,2 °C (-40 °C ... 0 °C) ± 0,1 °C (0 °C ... +120 °C) ± 0,05 °C (+120 °C ... +140 °C) ± 0,1 °C (+140 °C ... +150 °C) ± 0,5 °C (+150 °C ... +250 °C) ± 0,8 °C (+250 °C ... +400 °C)
Resolution:	time < 5 sec (in 24h) 0,01 °C
Memory	2 x 50,000 values
Sensor:	Pt 1,000, class A
Sampling rate	250 msec ... 24 h
Storage temperature	0 °C ... +125 °C
Modi	• Endless • Measure upon start time • Measure until end of memory • Start- / Stop
Battery	Lithium battery (3,6 V), user replaceable
Dimensions	(Ø x H) 48 mm x 24 mm
Wight	approx. 110 g
Housing material	316 L stainless steel / PEEK
Protection class	IP 68
Certificate	Factory calibration certificate



**In combination with thermal insulation box for use in oven**

Type	Description	Part. No
EBI 12-T421	L = 500 mm	1340-6630

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Available  
Q1 2018

# EBI 12 Temperature – Data Logger

for Monitoring, Process- and Routine control as well as Validation of Processes

## BLUE LINE

### EBI 12-T43X

The new EBI 12 data logger series with complete revised housing, new electronics and improved probes

- 316 L stainless steel housing
- Axial probes
- M5 thread at probe
- 2 channel
- Probes 3 mm, pointed
- Range from -40 °C to 150 °C
- High accuracy up to 0,1 °C

#### Technical specification

Operating temperature and range:	-40 °C ... +150 °C
Accuracy	± 0,1°C (0 °C ... +150°C) ± 0,3°C (-40 °C ... 0°C)
Resolution:	0,01 °C
Memory	2 x 13,500 values
Sensor:	Pt 1,000, class A
Sampling rate:	1 s ... 24 h
Storage temperature	0 °C ... +125 °C
Modi	<ul style="list-style-type: none"> <li>• Endless</li> <li>• Measure upon start time</li> <li>• Measure until end of memory</li> <li>• Start- / Stop</li> </ul>
Battery	Lithium battery (3,6 V), user replaceable
Dimensions	(Ø x H) 48 mm x 24 mm
Weight	approx. 110 g
Housing material	316 L stainless steel / PEEK
Protection class	IP 68
Certificate	Factory calibration certificate



In cans for Pasteurization control

Type	Description	Part. No
EBI 12-T430	L = 50 mm	1340-6616
EBI 12-T431	L = 75 mm	1340-6617
EBI 12-T432	L = 100 mm	1340-6618
EBI 12-T433	L = 150 mm	1340-6619

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# EBI 12 Temperature – Data Logger

for Monitoring, Process- and Routine control as well as Validation of Processes

## RED LINE

### EBI 12-T441

The new EBI 12 data logger series with complete revised housing, new electronics and improved probes

- 316 L stainless steel housing
- Axial probes
- 2 channels
- Probes 1,5 mm bendable
- Range from -200 °C to 200 °C
- High accuracy up to 0,05 °C
- Radio mode for real time monitoring
- ATEX certified

#### Technical specification

Operating temperature:	-90 °C ... +150 °C
Range:	-200 °C ... +200 °C
Accuracy:	± 1,5 °C (-200 °C ... -85 °C) ± 0,5 °C (-85 °C ... -40 °C) ± 0,2 °C (-40 °C ... 0 °C) ± 0,1 °C (0 °C ... +120 °C) ± 0,05 °C (+120 °C ... +140 °C) ± 0,1 °C (+140 °C ... +150 °C) ± 0,5 °C (+150 °C ... +200 °C)
Resolution:	time < 5 sec (in 24h) 0,01 °C
Memory	2 x 50,000 values
Sensor:	Pt 1,000, class A
Sampling rate:	250 msec ... 24 h
Storage temperature	0 °C ... +125 °C
Modi	• Endless • Measure upon start time • Measure until end of memory • Start- / Stop
Battery	Lithium battery (3,6 V), user replaceable
Dimensions	(Ø x H) 48 mm x 24 mm
Weight	approx. 110 g
Housing material	316 L stainless steel / PEEK
Protection class	IP 68
Certificate	Factory calibration certificate



For washer-disinfectors and  
H<sub>2</sub>O<sub>2</sub> sterilization  
EtO sterilization

ATEX-Type



Type	Description	Part. No
EBI 12-T441	L = 500 mm	1340-6629
EBI 12-T441-EX	L = 500 mm	1340-6629-EX

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# EBI 12 Temperature – Data Logger

for Monitoring, Process- and Routine control as well as Validation of Processes

## BLUE LINE

### EBI 12-T46X

The new EBI 12 data logger series with complete revised housing, new electronics and improved probes

- 316 L stainless steel housing
- Axial probes
- M10 thread at probe
- 2 channel
- Probe 6 mm, blunt
- Range from -40 °C to 150 °C
- High accuracy up to 0,3 °C

#### Technical specification

Operating temperature and range:	-40 °C ... +150 °C
Accuracy	± 0,3°C (-40 °C ... 150°C)
Resolution:	0,01 °C
Memory	2 x 13,500 values
Sensor:	Pt 1,000, class A
Sampling rate:	1 s ... 24 h
Storage temperature	0 °C ... +125 °C
Modi	<ul style="list-style-type: none"> <li>• Endless</li> <li>• Measure upon start time</li> <li>• Measure until end of memory</li> <li>• Start- / Stop</li> </ul>
Battery	Lithium battery (3,6 V), user replaceable
Dimensions	(Ø x H) 48 mm x 24 mm
Weight	approx. 110 g
Housing material	316 L stainless steel / PEEK
Protection class	IP 68
Certificate	Factory calibration certificate



For bottles for  
Pasteurization control

Type	Description	Part. No
EBI 12-T461	L = 135 mm	1340-6623
EBI 12-T462	L = 190 mm	1340-6624
EBI 12-T463	L = 245 mm	1340-6625
EBI 12-T464	L = 270 mm	1340-6626
EBI 12-T465	L = 300 mm	1340-6627

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# EBI 12 Temperature – Data Logger

for Monitoring, Process- and Routine control as well as Validation of Processes

## RED LINE

### EBI 12-T47X

The new EBI 12 data logger series with complete revised housing, new electronics and improved probes

- 316 L stainless steel housing
- Axial probes
- 2 channels
- Cable probe 1,2 mm flexible
- Range from -20 °C to 150 °C
- High accuracy up to 0,05 °C
- Radio mode for real time monitoring

#### Technical specification

Operating temperature:	-20 °C ... +150 °C
Range:	-20 °C ... +150 °C
Accuracy:	± 0,2 °C (-20 ... 0°C) ± 0,1 °C (0 °C ... +120 °C) ± 0,05 °C (+120 °C ... +140 °C) ± 0,1 °C (+140 °C ... +150 °C)
Resolution:	time < 5 sec (in 24h) 0,01 °C
Memory	2 x 50,000 Values
Sensor:	Pt 1,000, class A
Interval	250 msec ... 24 h
Storage temperature	0 °C ... +125 °C
Modi	• Endless • Measure upon start time • Measure until end of memory • Start- / Stop
Battery	Lithium battery (3,6 V), user replaceable
Dimensions	(Ø x H) 48 mm x 24 mm
Weight	approx. 110 g
Housing material	316 L stainless steel / PEEK
Protection class	IP 68
Certificate	Factory calibration certificate



For steam sterilizer

Type	Description	Part. No
EBI 12-T470	L = 600 mm	1340-6640
EBI 12-T471	L = 1200 mm	1340-6644

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# EBI 12 Temperature – Data Logger

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### EBI 12-T480

The new EBI 12 data logger series with complete revised housing, new electronics and improved probes

- 316 L stainless steel housing
- Radial cable
- 2 probes connectable
- Range from -200 °C to 400 °C
- High accuracy up to 0,05 °C
- Radio mode for real time monitoring

#### Technical specification

Operating temperature:	-90 °C ... +150 °C
Range:	-200 °C ... +400 °C
Accuracy:	± 1,5 °C (-200 °C ... -85 °C) ± 0,5 °C (-85 °C ... -40 °C) ± 0,2 °C (-40 °C ... 0 °C) ± 0,1 °C (0 °C ... +120 °C) ± 0,05 °C (+120 °C ... +140 °C) ± 0,1 °C (+140 °C ... +150 °C) ± 0,5 °C (+150 °C ... +250 °C) ± 0,8 °C (+250 °C ... +400 °C)
time	< 5 sec (in 24h)
Resolution:	0,01 °C
Memory	2 x 50.000 values
Sampling rate	250 msec ... 24 h
Storage temperature	0 °C ... +125 °C
Modi	• Endless • Measure upon start time • Measure until end of memory • Start- / Stop
Battery	Lithium battery (3,6 V), user replaceable
Dimensions	(Ø x H) 48 mm x 35 mm
Weight	Ca. 110 g
Housing material	316 L stainless steel / PEEK
Protection class	IP 68
Certificate	Factory calibration certificate



**For external connection  
of PT1000 temperature  
sensors**

Type	Description	Part. No
EBI 12-T480	Clamp	1340-6633

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# EBI 12 Temperature – Data Logger

for Monitoring, Process- and Routine control as well as Validation of Processes

## RED LINE

### EBI 12-T490

The new EBI 12 data logger series with complete revised housing, new electronics and improved probes

- 316 L stainless steel housing
- Radial probes
- 2 channels
- Cable probes 1,2 mm flexible
- Range from -20 °C to 150 °C
- High accuracy up to 0,05 °C
- Radio mode for real time monitoring



#### Technical specification

Operating temperature:	-20 °C ... +150 °C
Range:	-20 °C ... +150 °C
Accuracy:	± 0,2 °C (-20 °C ... 0 °C) ± 0,1 °C (0 °C ... +120 °C) ± 0,05 °C (+120 °C ... +140 °C) ± 0,1 °C (+140 °C... +150 °C)
Resolution:	time < 5 sec (in 24 h) 0,01 °C
Memory	2 x 50,000 values
Sensor:	Pt 1000, class A
Sampling rate:	250 msec ... 24 h
Storage temperature	0 °C ... +125 °C
Modi	• Endless • Measure upon start time • Measure until end of memory • Start- / Stop
Battery	Lithium battery (3,6 V), user replaceable
Dimensions	(Ø x H) 48 mm x 24 mm
Weight	approx. 110 g
Housing material	316 L stainless steel / PEEK
Protection class	IP 68
Certificate	Factory calibration certificate

**For use in steam sterilizer**

Type	Description	Part. No
EBI 12-T490	L = 600 mm	1340-6634

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# EBI 12 Temperature – Data Logger

for Monitoring, Process- and Routine control as well as Validation of Processes

## RED LINE

### EBI 12-T671

The new EBI 12 data logger series with complete revised housing, new electronics and improved probes

- 316 L stainless steel housing
- Axial probes
- 4 channels
- Cable probe 1,2 mm flexible
- Range from -20 °C to 150 °C
- High accuracy up to 0,05 °C
- Radio mode for real time monitoring



#### Technical specification

Operating temperature:	-20 °C ... +150 °C
Range:	-20 °C ... +150 °C
Accuracy:	± 0,2 °C (-20 °C ... 0 °C) ± 0,1 °C (0 °C ... +120 °C) ± 0,05 °C (+120 °C ... +140 °C) ± 0,1 °C (+140 °C ... +150 °C)
Resolution:	0,01 °C
Memory	4 x 25,000 Values
Sensor:	Pt 1,000, class A
Sampling rate:	250 msec ... 24 h
Storage temperature	0 °C ... +125 °C
Modi	<ul style="list-style-type: none"> <li>• Endless</li> <li>• Measure upon start time</li> <li>• Measure until end of memory</li> <li>• Start- / Stop</li> </ul>
Battery	Lithium battery (3,6 V), user replaceable
Dimensions	(Ø x H) 48 mm x 24 mm
Weight	approx. 110 g
Housing material	316 L stainless steel / PEEK
Protection class	IP 68
Certificate	Factory calibration certificate

**For use in steam sterilizer**

Type	Description	Part. No
EBI 12-T671	L = 1200mm	1340-6645

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# EBI 12 Temperature – Data Logger

for Monitoring, Process- and Routine control as well as Validation of Processes

## RED LINE

### EBI 12-T690

The new EBI 12 data logger series with complete revised housing, new electronics and improved probes

- 316 L stainless steel housing
- Radial probes
- 4 cable probes
- Cable probe 1,2 mm flexible
- Range from -20 °C to 150 °C
- High accuracy up to 0,05 °C
- Radio mode for real time monitoring



#### Technical specification

Operating temperature:	-20 °C ... +150 °C
Range:	-20 °C ... +150 °C
Accuracy:	± 0,2 °C (-20 °C ... 0 °C) ± 0,1 °C (0 °C ... +120 °C) ± 0,05 °C (+120 °C ... +140 °C) ± 0,1 °C (+140 °C ... +150 °C)
Resolution:	time < 5 sec (in 24 h) 0,01 °C
Memory	4 x 25, 000 values
Sensor:	Pt 1,000, class A
Sampling rate:	250 ms ... 24 h
Storage temperature	0 °C ... +125 °C
Modi	• Endless • Measure upon start time • Measure until end of memory • Start- / Stop
Battery	Lithium battery (3,6 V), user replaceable
Dimensions	(Ø x H) 48 mm x 24 mm
Weight	approx. 110 g
Housing material	316 L stainless steel / PEEK
Protection class	IP 68
Certificate	Factory calibration certificate

**For use in steam sterilizers**

Type	Description	Part. No
EBI 12-T690	L = 600mm	1340-6635

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Available

# EBI 12 Conductivity-/ Temperature Data logger

for Monitoring, Process- and Routine control as well as Validation of Processes

**RED LINE**

## EBI 12-TC230

The new EBI 12 data logger series with complete revised housing, new electronics and improved probes

- 316 L stainless steel housing
- 1 temperature channel
- Range from 0 °C to 125 °C
- High temperature accuracy up to 0,1 °C
- Conductivity up to 2,000 µS/cm
- Radio mode for real time monitoring

### Technical specification

Operating range:	Temperature	0 °C ... +125 °C
	Conductivity	1 ... 2,000 µS/cm
Accuracy	Temperature	± 0,1 °C
	Conductivity	± 0,5 µS/cm (1 ... 100 µS/cm ) ± 1 % value(100 ... 2,000 µS/cm )
Memory:		2 x 50,000 values
Sensor:	Temperature	Pt 1,000,
	Conductivity	Conductivity electrode
Modi		• Endless
		• Measure upon start time
		• Measure until end of memory
		• Start- / Stop
Storage temperature		0 °C ... +125 °C
Time accuracy (24h)		< 5 sec
Battery		Lithium battery (3,6 V), user replaceable
Dimensions		(Ø x H) 48 mm x 100 mm
Weight		approx. 110 g
Housing material		316 L stainless steel / PEEK
Protection class		IP 68
Certificate		Factory calibration certificate



Type	Description	Part. No
EBI 12-TC230	L = 40 mm	1340-6667

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# EBI 12 Humidity-/ Temperature Data Logger

for Monitoring, Process- and Routine control as well as Validation of Processes

## RED LINE

### EBI 12-TH100

The new EBI 12 data logger series with complete revised housing, new electronics and improved probes

- 316 L stainless steel housing
- 1 temperature channel
- Range from 0 °C to 85 °C
- High temperature accuracy up to 0,1 °C
- Humidity channel 0 to 100% rH
- High humidity accuracy up to 2% rH
- Sensor user replaceable
- Radio mode for real time monitoring
- ATEX certified

#### Technical specifications

Operating range:	0 °C ... +85 °C
Measurement range:	Temperature 0 °C ... +85 °C Humidity 0 % rH... 100 % rH
Accuracy:	Temperature ± 0,1 °C Humidity ± 2 % rH, non-condensing at 25 °C
Memory:	2 X 50,000 Values
Sensor:	Temperature external (Pt 1,000) Humidity (capacitive); combined Sensor replaceable
Storage temperature	-20 °C ... +70 °C
Resolution:	Temperature 0,01 °C Humidity 0,1 % rH
Sampling rate:	250 ms ... 24 h
Modi	• Endless • Measure upon start time • Measure until end of memory • Start- / Stop
Time accuracy (24h)	< 5 sec
Battery	Lithium battery (3,6 V), user replaceable
Dimensions	(Ø x H) 48 mm x 70 mm
Weight	approx. 110 g
Housing material	316 L stainless steel / PEEK
Protection class	IP 52
Certificate	Factory calibration certificate



ATEX-Type



Type	Description	Part. No
EBI 12-TH100	Temperature/Humidity	1340-6671
EBI 12-TH100-EX	Temperature/Humidity	1340-6671-EX

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# EBI 12 Fine vacuum-/ Temperature Data Logger

for Monitoring, Process- and Routine control as well as Validation of Processes

## RED LINE

### EBI 12-TPX90

The new EBI 12 data logger series with complete revised housing, new electronics and improved probes

- 316 L stainless steel housing
- Pressure measurement down to fine vacuum 0,1 mbar
- High precision pressure measurement 0,25 mbar
- 1 temperature channel
- Range from 0 °C to 85 °C
- High temperature accuracy up to 0,1 °C
- Radio mode for real time monitoring

#### Technical specification

Range:	Temperature	0 °C ... +85 °C	
	Pressure	0,1 ... 1,050 mbar	
		0,075 ... 788 Torr	
Accuracy:	Temperature	±0,1 °C	
	Pressure	± 0,25 mbar	(0,1 ... 50 mbar)
		± 0,18 Torr	(0,075 ... 37,5 Torr)
		± 5% from value	(50 ... 100 mbar)
			(37,5 ... 75 Torr)
		± 1% FS	(100 ... 1050 mbar)
			(75 ... 788 Torr)
Resolution:	Temperature	0,01 °C	
	Pressure	0,1 mbar (0,1 Torr)	
Memory:		50,000 values (TP190)	
		33,400 values (TP291)	
Sensor:	Temperature	Pt 1,000	
	Pressure	piezoresistive pressure sensor	
Sampling rate:		250 ms ... 24 h	
Modi		<ul style="list-style-type: none"> <li>• Endless</li> <li>• Measure upon start time</li> <li>• Measure until end of memory</li> <li>• Start- / Stop</li> </ul>	
Storage temperature		0 °C ... +85 °C	
Maximum pressure		0,1 mbar ... 2,000 mbar abs.	
Battery		Lithium battery (3,6 V), user replaceable	
Dimensions		(Ø x H) 48 mm x 32 mm	
Weight		approx. 110 g	
Housing material		316 L stainless steel / PEEK	
Protection class		IP 68	
Certificate		Factory calibration certificate	



Type	Description	Part. No
EBI 12-TP190	Internal	1340-6665
EBI 12-TP290	L = 40 mm	1340-6666

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# EBI 12 Pressure-/ Temperature Data Logger

for Monitoring, Process- and Routine control as well as Validation of Processes

## RED LINE

### EBI 12-TP222

The new EBI 12 data logger series with complete revised housing, new electronics and improved probes

- 316 L stainless steel housing
- 1 temperature channel axial
- Temperature probe 1,5 mm bendable
- Range from 0 °C to 150 °C
- High temperature accuracy up to 0,05 °C
- Pressure up to 4,000 mbar
- high pressure accuracy 10 mbar
- Luer-Lock connection
- Radio mode for real time monitoring

#### Technical specification

Operating range:	0 °C ... +150 °C 1 mbar ... 4,000 mbar
Accuracy:	±0,05 °C (+120 °C ... +140 °C) ±0,1 °C (remaining range)
	±10 mbar (50...150 mbar) (2,050...2,250 mbar) (3,000...3,250 mbar) ±15 mbar (remaining range)
Storage temperature	0 °C ... +125 °C
Resolution:	temperature 0,01 °C / pressure 1 mbar
Memory	2 x 33,400 values
Sensor:	Pt 1,000, class A Piezoresistive pressure sensor (temperature compensated)
Sampling rate:	250 ms ... 24 h
Modi	<ul style="list-style-type: none"> <li>• Endless</li> <li>• Measure upon start time</li> <li>• Measure until end of memory</li> <li>• Start- / Stop</li> </ul>
Time accuracy (24h)	< 5 sec
Battery	Lithium battery (3,6 V), user replaceable
Dimensions	(Ø x H) 48 mm x 32 mm
Weight	approx. 110 g
Housing material	316 L stainless steel / PEEK
Protection class	IP 68
Certificate	Factory calibration certificate



Type	Description	Part. No
EBI 12-TP222	L = 500 mm, Luer-Lock	1340-6653

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# EBI 12 Pressure-/ Temperature Data Logger

for Monitoring, Process- and Routine control as well as Validation of Processes

## RED LINE

### EBI 12-TP231

The new EBI 12 data logger series with complete revised housing, new electronics and improved probes

- 316 L stainless steel housing
- 1 temperature channel axial
- Temperature probe 1,95 mm
- Range from 0 °C to 150 °C
- High temperature accuracy up to 0,05 °C
- Pressure up to 4,000 mbar
- high pressure accuracy 10 mbar
- Luer-Lock connection
- Radio mode for real time monitoring
- ATEX certified

#### Technical specification

Operating range:	0 °C ... +150 °C 1mbar ... 4,000 mbar
Accuracy:	±0,05 °C (+120 °C ... +140 °C) ±0,1 °C (remaining range) ±10 mbar (50...150 mbar) (2,050...2,250 mbar) (3,000...3,250 mbar) ±15 mbar (remaining range)
Storage temperature	0 °C ... +125 °C
Resolution:	temperature 0,01 °C / pressure 1 mbar
Memory	2 x 33,400 values
Sensor:	Pt 1,000, class A Piezoresistive pressure sensor (temperature compensated)
Sampling rate:	250 ms ... 24 h
Modi	• Endless • Measure upon start time • Measure until end of memory • Start- / Stop
Time accuracy (24h)	< 5 sec
Battery	Lithium battery (3,6 V), user replaceable
Dimensions	(Ø x H) 48 mm x 32 mm
Weight	approx. 110 g
Housing material	316 L stainless steel / PEEK
Protection class	IP 68
Certificate	Factory calibration certificate



ATEX-Type



Type	Description	Part. No
EBI 12-TP231	L = 40 mm	1340-6655
EBI 12-TP231-EX	L = 40 mm	1340-6655-EX

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# EBI 12 Pressure-/ Temperature – Data Logger

for Monitoring, Process- and Routine control as well as Validation of Processes

## RED LINE

### EBI 12-TP234

The new EBI 12 data logger series with complete revised housing, new electronics and improved probes

- 316 L stainless steel housing
- 1 temperature channel axial
- Temperature probe 1,5 mm bendable
- Range from 0 °C to 150 °C
- High temperature accuracy up to 0,05 °C
- Pressure up to 4,000 mbar
- high pressure accuracy 10 mbar
- Tube connection M10x1
- Radio mode for real time monitoring

#### Technical specification

Operating range:	0 °C ... +150 °C 1mbar ... 4,000 mbar
Accuracy:	±0,05 °C (+120 °C ... +140 °C) ±0,1 °C (remaining range) ±10 mbar (50...150 mbar) (2,050...2,250 mbar) (3,000...3,250 mbar) ±15 mbar (remaining range)
Storage temperature	0 °C ... +125 °C
Resolution:	temperature 0,01 °C / pressure 1 mbar
Memory	2 x 33,400 values
Sensor:	Pt 1,000, class A Piezoresistive pressure sensor (temperature compensated)
Sampling rate:	250 ms ... 24 h
Modi	• Endless • Measure upon start time • Measure until end of memory • Start- / Stop
Time accuracy (24h)	< 5 sec
Battery	Lithium battery (3,6 V), user replaceable
Dimensions	(Ø x H) 48 mm x 32 mm
Weight	approx. 110 g
Housing material	316 L stainless steel / PEEK
Protection class	IP 68
Certificate	Factory calibration certificate



Type	Description	Part. No
EBI 12-TP234	L = 40 mm, tube connection	1340-6652

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# EBI 12 Pressure-/ Temperature Data Logger

for Monitoring, Process- and Routine control as well as Validation of Processes

## RED LINE

### EBI 12-TP322

The new EBI 12 data logger series with complete revised housing, new electronics and improved probes

- 316 L stainless steel housing
- 2 temperature channels axial
- Temperature probes 1,5 mm bendable
- Range from 0 °C to 150 °C
- High temperature accuracy up to 0,05 °C
- Pressure up to 4,000 mbar
- high pressure accuracy 10 mbar
- Luer-Lock connection
- Radio mode for real time monitoring

#### Technical specification

Operating range:	0 °C ... +150 °C 1mbar ... 4,000 mbar
Accuracy:	±0,05 °C (+120 °C ... +140 °C) ±0,1 °C (remaining range)
	±10 mbar (50...150 mbar) (2,050...2,250 mbar) (3,000...3,250 mbar) ±15 mbar (remaining range)
Storage temperature	0 °C ... +125 °C
Resolution:	temperature 0,01 °C / pressure 1 mbar
Memory	3 x 25,000 values
Sensor:	Pt 1,000, class A Piezoresistive pressure sensor (temperature compensated)
Sampling rate:	250 ms ... 24 h
Modi	<ul style="list-style-type: none"> <li>• Endless</li> <li>• Measure upon start time</li> <li>• Measure until end of memory</li> <li>• Start- / Stop</li> </ul>
Time accuracy (24h)	< 5 sec
Battery	Lithium battery (3,6 V), user replaceable
Dimensions	(Ø x H) 48 mm x 32 mm
Weight	approx. 110 g
Housing material	316 L stainless steel / PEEK
Protection class	IP 68
Certificate	Factory calibration certificate



Type	Description	Part. No
EBI 12-TP322	L = 500 mm, Luer-Lock	1340-6664

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# EBI 12 Pressure-/ Temperature Data Logger

for Monitoring, Process- and Routine control as well as Validation of Processes

## RED LINE

### EBI 12-TP422

The new EBI 12 data logger series with complete revised housing, new electronics and improved probes

- 316 L stainless steel housing
- 3 temperature channel axial
- Temperature probes 1,5 mm bendable
- Range from 0 °C to 150 °C
- High temperature accuracy up to 0,05 °C
- Pressure up to 4,000 mbar
- high pressure accuracy 10 mbar
- Luer-Lock connection
- Radio mode for real time monitoring

#### Technical specification

Operating range:	0 °C ... +150 °C 1 mbar ... 4,000 mbar
Accuracy:	±0,05 °C (+120 °C ... +140 °C) ±0,1 °C (remaining range)
	±10 mbar (50...150 mbar) (2,050...2,250 mbar) (3,000...3,250 mbar) ±15 mbar (remaining range)
Storage temperature	0 °C ... +125 °C
Resolution:	temperature 0,01 °C / pressure 1 mbar
Memory	4 x 20,000 values
Sensor:	Pt 1,000, class A Piezoresistive pressure sensor (temperature compensated)
Sampling rate:	250 ms ... 24 h
Modi	<ul style="list-style-type: none"> <li>• Endless</li> <li>• Measure upon start time</li> <li>• Measure until end of memory</li> <li>• Start- / Stop</li> </ul>
Time accuracy (24h)	< 5 sec
Battery	Lithium battery (3,6 V), user replaceable
Dimensions	(Ø x H) 48 mm x 32 mm
Weight	approx. 110 g
Housing material	316 L stainless steel / PEEK
Protection class	IP 68
Certificate	Factory calibration certificate



Type	Description	Part. No
EBI 12-TP422	L = 500mm, Luer-Lock	1340-6661

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# EBI 12 Pressure-/ Temperature Data Logger

for Monitoring, Process- and Routine control as well as Validation of Processes

## RED LINE

### EBI 12-TP45X

The new EBI 12 data logger series with complete revised housing, new electronics and improved probes

- 316 L stainless steel housing
- 3 temperature channel axial
- Cable probes 1,2 mm flexible
- Range from 0 °C to 150 °C
- High temperature accuracy up to 0,05 °C
- Pressure up to 4,000 mbar
- high pressure accuracy 10 mbar
- Luer-Lock connection
- Radio mode for real time monitoring

#### Technical specification

Operating range:	0 °C ... +150 °C 1 mbar ... 4,000 mbar
Accuracy:	±0,05 °C (+120 °C ... +140 °C) ±0,1 °C (remaining range) ±10 mbar (50...150 mbar) (2,050...2,250 mbar) (3,000...3,250 mbar) ±15 mbar (remaining range)
Storage temperature	0 °C ... +125 °C
Resolution:	temperature 0,01 °C / pressure 1 mbar
Memory	4 x 20,000 values
Sensor:	Pt 1,000, class A Piezoresistive pressure sensor (temperature compensated)
Sampling rate:	250 ms ... 24 h
Modi	• Endless • Measure upon start time • Measure until end of memory • Start- / Stop
Time accuracy (24h)	< 5 sec
Battery	Lithium battery (3,6 V), user replaceable
Dimensions	(Ø x H) 48 mm x 32 mm
Weight	approx. 110 g
Housing material	316 L stainless steel / PEEK
Protection class	IP 68
Certificate	Factory calibration certificate



Type	Description	Part. No
EBI 12-TP451	L = 600 mm, Luer-Lock	1340-6643
EBI 12-TP453	L = 1200 mm, Luer-Lock	1340-6647

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# EBI 12 Pressure-/ Temperature Data Logger

for Monitoring, Process- and Routine control as well as Validation of Processes

## RED LINE

### EBI 12-TP460

The new EBI 12 data logger series with complete revised housing, new electronics and improved probes

- 316 L stainless steel housing
- 3 temperature channels radial
- Cable probe 1,2 mm flexible
- Range from 0 °C to 150 °C
- High temperature accuracy up to 0,05 °C
- Pressure up to 4,000 mbar
- high pressure accuracy 10 mbar
- Radio mode for real time monitoring



#### Technical specification

Operating range:	0 °C ... +150 °C 1mbar ... 4,000 mbar
Accuracy:	±0,05 °C (+120 °C ... +140 °C) ±0,1 °C (remaining range)
	±10 mbar (50...150 mbar) (2,050...2,250 mbar) (3,000...3,250 mbar) ±15 mbar (remaining range)
Storage temperature	0 °C ... +125 °C
Resolution:	temperature 0,01 °C / pressure 1 mbar
Memory	4 x 20,000 values
Sensor:	Pt 1,000, class A Piezoresistive pressure sensor (temperature compensated)
Sampling rate:	250 ms ... 24 h
Modi	• Endless • Measure upon start time • Measure until end of memory • Start- / Stop
Time accuracy (24h)	< 5 sec
Battery	Lithium battery (3,6 V), user replaceable
Dimensions	(Ø x H) 48 mm x 32 mm
Weight	approx. 110 g
Housing material	316 L stainless steel / PEEK
Protection class	IP 68
Certificate	Factory calibration certificate

Type	Description	Part. No
EBI 12-TP460	L = 600 mm	1340-6648

#### Headquarters:

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