EBI 12

Data Logger Series

EBI 12 Series

EBI 12 data logger, available Jan 2018





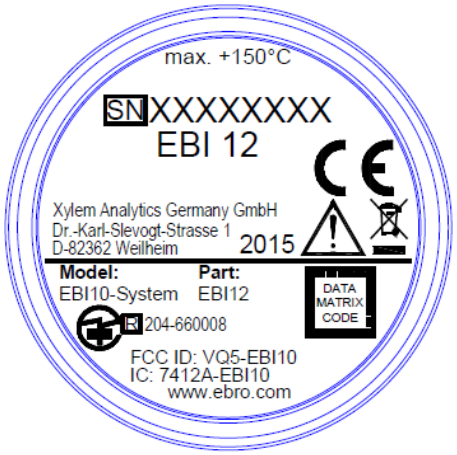
- Double sealing – very high resistance against humidity
- New high quality housing
- New electronic inside
- New sensor sealing - no more sensor drift
- Improved cable sensors
- ATEX possible
- Sensors for temperature, pressure, humidity and conductivity
- Software and interfaces compatible
- Radio mode possible
- New tool for battery replacement

EBI 12 Series

EBI 12 data logger, available Jan 2018



EBI 100



EBI 12
Blue Line

EBI 10

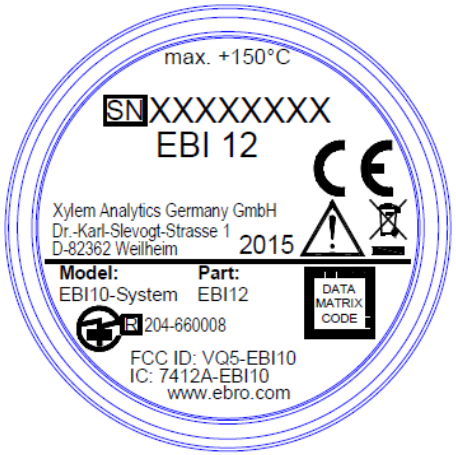


EBI 12
Red Line



EBI 12 Series

EBI 12 data logger, available Jan 2018



EBI 12
Blue Line

Routine control,
Process control,
Monitoring

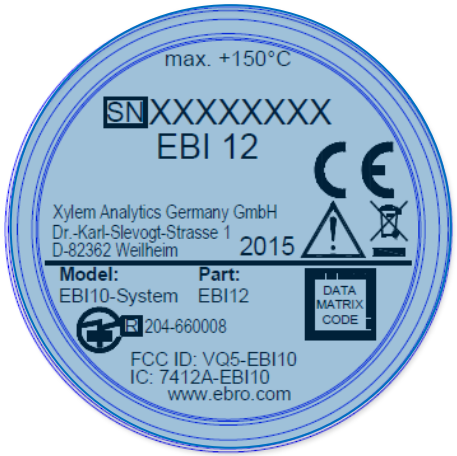


EBI 12
Red Line

Operation Qualification,
Process Qualification
(Validation)

EBI 12 Series

EBI 12 series – BLUE LINE



- EBI 12 with **BLUE** peek inlay
  - 1 and 2 channel with sensor diameter 3mm and 6mm
  - Only temperature
  - Range -40°C … +150°C



- DRY ICE
  - - 85°C … + 85°C

-ebro- a xylem brand

EBI 12 series – BLUE LINE

Single channel types Internal probe



Part No.	Type	Description
1340-6601	EBI 12-T101	1CH Dry Ice

Measurement range	Operating range	Accuracy
-90 … +85°C	-90 … +85°C	0.3

EBI 12 series – BLUE LINE

Single channel types

External probe 3mm



Part No.	Type	Description
For Cans / 3mm radial		
1340-6602	EBI 12-T210	1CH Temperature Logger 50mm
1340-6603	EBI 12-T211	1CH Temperature Logger 75mm

Measurement range	Operating range	Accuracy
-40 … +150°C	-40 … +150°C	0.1

EBI 12 series – BLUE LINE

Single channel types



External probe 3mm

Part No.	Type	Description
For Cans M5 / 3mm axial		
1340-6606	EBI 12-T230	1CH Temperature Logger 50mm
1340-6607	EBI 12-T231	1CH Temperature Logger 75mm
1340-6608	EBI 12-T232	1CH Temperature Logger 100mm
1340-6609	EBI 12-T233	1CH Temperature Logger 150mm

Measurement range	Operating range	Accuracy
-40 … +150°C	-40 … +125°C	0.1

-ebro- a xylem brand

EBI 12 series – BLUE LINE

Double channel types



External probe 3mm

NEW Q1 2018

Part No.	Type	Description
For Cans M5 / 3mm		
1340-6616	EBI 12-T430	2CH Temperature Logger 50mm
1340-6617	EBI 12-T431	2CH Temperature Logger 75mm
1340-6618	EBI 12-T432	2CH Temperature Logger 100mm
1340-6619	EBI 12-T433	2CH Temperature Logger 150mm

Measurement range	Operating range	Accuracy
-40 … +150°C	-40 … +150°C	0.1

EBI 12 Series

EBI 12 series – BLUE LINE

Double channel types



External probe 6 mm

NEW Q1 2018

Part No.	Type	Description
For Bottles M10 / 6mm		
1340-6623	EBI 12-T461	2CH Temperature Logger 135mm
1340-6624	EBI 12-T462	2CH Temperature Logger 190mm
1340-6625	EBI 12-T463	2CH Temperature Logger 245mm
1340-6626	EBI 12-T464	2CH Temperature Logger 270mm
1340-6627	EBI 12-T465	2CH Temperature Logger 300mm

Measurement range	Operating range	Accuracy
-40 … +150°C	-40 … +150°C	0.3

-ebro- a xylem brand

EBI 12 Series

EBI 12 series – RED LINE

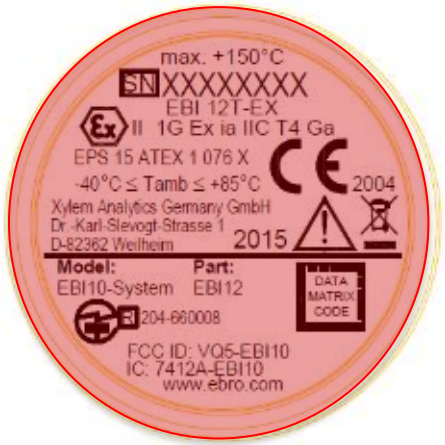
- EBI 12 with **RED** peek inlay
  - 1, 2 and 4 temperature channel, sensor less 2mm
  - Pressure
  - Humidity
  - Conductivity

EBI 12 – RED LINE
-ebro-
a xylem brand

EBI 12 Series

EBI 12 series – RED LINE





- EBI 12 with **RED** peek inlay
- 1, 2 and 4 Channel, Sensor less 2mm
- Accuracy 0,05°C (120 … 140°C)
- Temperature range -90°C … 150°C
- Measurement range -200°C … +400°C
- ATEX TYPE
- Parameter
  - Temperature

-ebro-
a xylem brand

EBI 12 Series

EBI 12 series – RED LINE

Single channel types

Internal probe



Part No.	Type	Description
1340-6600	EBI 12-T100	1CH Temperature

Measurement range	Operating range	Accuracy
-90 … +150°C	-90 … +150°C	0.05

-ebro- a xylem brand

EBI 12 Series

EBI 12 series – RED LINE



Temperature external probe 1.5 mm

Part No.	Type	Description
1.5mm axial		
1340-6611	EBI 12-T240	1Ch Temperature Logger 250mm
1340-6612	EBI 12-T241	1Ch Temperature Logger 500mm
1340-6629	EBI 12-T441	2Ch Temperature Logger 500mm

Measurement range	Operating range	Accuracy
-200 … +200°C	-90 … +150°C	0.05

-ebro- a xylem brand

EBI 12 Series

EBI 12 series – RED LINE



Temperature external probe 1.5 mm

Part No.	Type	Description
1.5mm radial		
1340-6604	EBI 12-T220	1Ch Temperature Logger 250mm

Measurement range	Operating range	Accuracy
-200 … +200°C	-90 … +150°C	0.05

1340-6605	EBI 12-T221	1Ch Temperature Logger 500mm
1340-6630	EBI 12-T421	2Ch Temperature Logger 500mm

Measurement range	Operating range	Accuracy
-200 … +400°C	-90 … +150°C	0.05

-ebro- a xylem brand

EBI 12 Series

EBI 12 series – RED LINE



Temperature external probe 1.2 mm

Part No.	Type	Description
1.2mm radial		
1340-6634	EBI 12-T490	2Ch Temperature Logger 600mm
1340-6635	EBI 12-T690	4Ch Temperature Logger 600mm

Measurement range	Operating range	Accuracy
-20 … +150°C	-20 … +150°C	0.05

-ebro- a xylem brand

EBI 12 series – RED LINE



Temperature external probe 1.2 mm

Part No.	Type	Description
1.2mm axial		
1340-6640	EBI 12-T470	2Ch Temperature Logger 600mm
1340-6644	EBI 12-T471	2Ch Temperature Logger 1200mm
1340-6645	EBI 12-T671	4Ch Temperature Logger 1200mm

Measurement range	Operating range	Accuracy
-20 … +150°C	-20 … +150°C	0.05

-ebro- a xylem brand

EBI 12 Series

EBI 12 series – RED LINE





- EBI 12 with **RED** peek inlay
- 1, 2 and 3 Channel, sensor less 2mm
- Accuracy temperature 0,05°C (120 … 140°C)
  pressure 10mbar
- Temperature range 0°C … +150°C
- Measurement range 0°C … +150°C
  0mbar … 4000mbar
- ATEX TYPE
- Parameter
  - Temperature / Pressure

-ebro- a xylem brand

EBI 12 Series

EBI 12 series – RED LINE





Temperature / Pressure external probe 1.95

Part No.	Type	Description
1.95mm axial		
1340-6652	EBI 12-TP234	1CH Temp / Pressure Tube 40mm
1340-6655	EBI 12-TP231	1CH Temp / Pressure Luer 40mm

Measurement range	Operating range	Accuracy
0 … +150°C	0 … +150°C	0.05
0 … 4000mbar		10

-ebro-
a xylem brand

EBI 12 series – RED LINE

Temperature / Pressure external probe 1.5 mm



Part No.	Type	Description
1.5mm axial		
1340-6653	EBI 12-TP222	1CH Temp / Pressure Luer 500mm
1340-6661	EBI 12-TP321	2CH Temp / Pressure Standard 500mm
1340-6664	EBI 12-TP322	2CH Temp / Pressure Luer 500mm
1340-6662	EBI 12-TP422	3CH Temp / Pressure Luer 500mm

Measurement range	Operating range	Accuracy
0 … +150°C	0 … +150°C	0.05
0 … 4000mbar		10

-ebro- a xylem brand

EBI 12 Series

EBI 12 series – RED LINE



Temperature / Pressure external probe 1.2 mm

Part No.	Type	Description
1.2mm Axial		
1340-6643	EBI 12-TP451	3CH Temp / Pressure Luer 600mm
1340-6647	EBI 12-TP453	3CH Temp / Pressure Luer 1200mm

Measurement range	Operating range	Accuracy
0 … +150°C	0 … +150°C	0.05
0 … 4000mbar		10

-ebro-
a xylem brand

EBI 12 series – RED LINE



Temperature / Pressure external probe 1.2 mm

Part No.	Type	Description
1.2mm radial		
1340-6648	EBI 12-TP460	3CH Temp / Pressure Standard 600mm

Measurement range	Operating range	Accuracy
0 … +150°C	0 … +150°C	0.05
0 … 4000mbar		10

-ebro-
a xylem brand

EBI 12 Series

EBI 12 series – RED LINE

NEW Q1 2018

- EBI 12 with **RED** peek inlay
  - 1 Channel, Sensor less 2mm
  - Accuracy 0.1°C
    0.25mbar



  - Temperature range 0°C … +85°C
  - Measurement range 0°C … +85°C
    0 … 1050mbar
  - Parameter
    Temperature / Low pressure

EBI 12 – RED LINE

-ebro- a xylem brand

EBI 12 Series

EBI 12 series – RED LINE

The use in steam sterilizer is not suitable



For H_2O_2 Sterilization

Special Logger

NEW Q1 2018

Part No.	Type	Description
Low Pressure – high precission		
1340-6665	EBI 12-TP190	1CH Pressure Logger
1340-6666	EBI 12-TP291	1CH Temp / Pressure Logger

Measurement range	Operating range	Accuracy
0 … +85°C	0 … +85°C	0.05
0 … 1050mbar		0.25

EBI 12 – RED LINE

-ebro- a xylem brand

EBI 12 Series

EBI 12 series – RED LINE

NEW Q1 2018

- EBI 12 with **RED** peek inlay
  - 1 Channel, Sensor less 2mm
  - Accuracy 0.1°C
    0.5µS/cm
  - Temperature range 0°C … +125°C
  - Measurement range 0°C … +125°C
    0 … 2000µS/cm
  - Parameter
    Temperature / Conductivity



EBI 12 Series

EBI 12 series – RED LINE

The use in steam sterilizer is not suitable



For Washer Disinfector

NEW Q1 2018

Special Logger

Part No.	Type	Description
Conductivity		
1340-6667	EBI 12-TC230	1CH Temp / Conductivity Logger

Measurement range	Operating range	Accuracy
0 … +125°C	0 … +125°C	0.05
0 … 2000µS/cm		0.5

-ebro- a xylem brand

EBI 12 Series

EBI 12 series – RED LINE





- EBI 12 with **RED** peek inlay
- Accuracy 0.1°C
  2 %rH
- Temperature range 0°C … +85°C
- Measurement range 0°C … +85°C
  0 … 100 %rH
- Parameter
- Temperature / Humidity

EBI 12 – RED LINE

-ebro- a xylem brand

EBI 12 Series

EBI 12 series – RED LINE

The use in steam sterilizer is not suitable



Special Logger

Part No. **Type** **Description**

Low Pressure – high precission

Humidity

1340-6671 EBI 12-TH100 Temp / Humidity Logger

Measurement range	Operating range	Accuracy
0 … +85°C	0 … +85°C	0.05
0 … 100 %rH		2

EBI 12 – RED LINE

-ebro- a xylem brand

EBI 12 series – RED LINE

The use in steam sterilizer is not suitable



Special Logger

Part No.	Type	Description
Low Pressure – high precission		
With Strip		
1340-6633	EBI 12-T480	2CH Temperature Logger

Measurement range	Operating range	Accuracy
-200 … +400°C	-90 … +150°C	0.05 (only Electronics)

To use different PT1000 Sensors

-ebro- a xylem brand

EBI 12 Series

EBI 12 series – RED LINE

NEW Q1 2018







ATEX types

Part No.	Type	Description
1340-6600-EX	EBI 12-T100-EX	1CH Temperature Logger
Measurement range	Operating range	ATEX / Accuracy
-90 … +150°C	-90 … +150°C	0 … +85°C / 0.05
1340-6604-EX	EBI 12-T220-EX	1CH Temperature Logger
Measurement range	Operating range	ATEX / Accuracy
-200 … +200°C	-90 … +150°C	0 … +85°C / 0.05
1340-6629-EX	EBI 12-T441-EX	2CH Temperature Logger
Measurement range	Operating range	ATEX / Accuracy
-200 … +400°C	-90 … +150°C	0 … +85°C / 0.05

EBI 12 – RED LINE

-ebro- a xylem brand

EBI 12 Series

EBI 12 series – RED LINE





NEW Q1 2018

ATEX types

Part No.	Type	Description

1340-6655-EX EBI 12-TP231-EX 1K Temp./ Pressure Logger

Measurement range	Operating range	ATEX	Accuracy
0 … +150°C	0 … +150°C	0 … +85°C	0.05
0 … 4000mbar			10

1340-6671-EX EBI 12-TH100-EX Temp / Humidity Logger

Measurement range	Operating range	ATEX	Accuracy
0 … +85°C	0 … +85°C	0 … +85°C	0.05
0 … 100 %rH			2

EBI 12 – RED LINE

-ebro- a xylem brand

EBI 12 Series

EBI 12 series – RED LINE



EBI 16 based on EBI 12



EBI 16

Part No.	Type	Description
1340-6697	EBI 16	BD Logger
Measurement range 0 … +150°C 0 … 4000mbar	Operating range 0 … +150°C	Accuracy 0.1 10

EBI 12 Series

Stainless steel with double seeling

Long term stability by a second barrier and combination of different sealing materials.

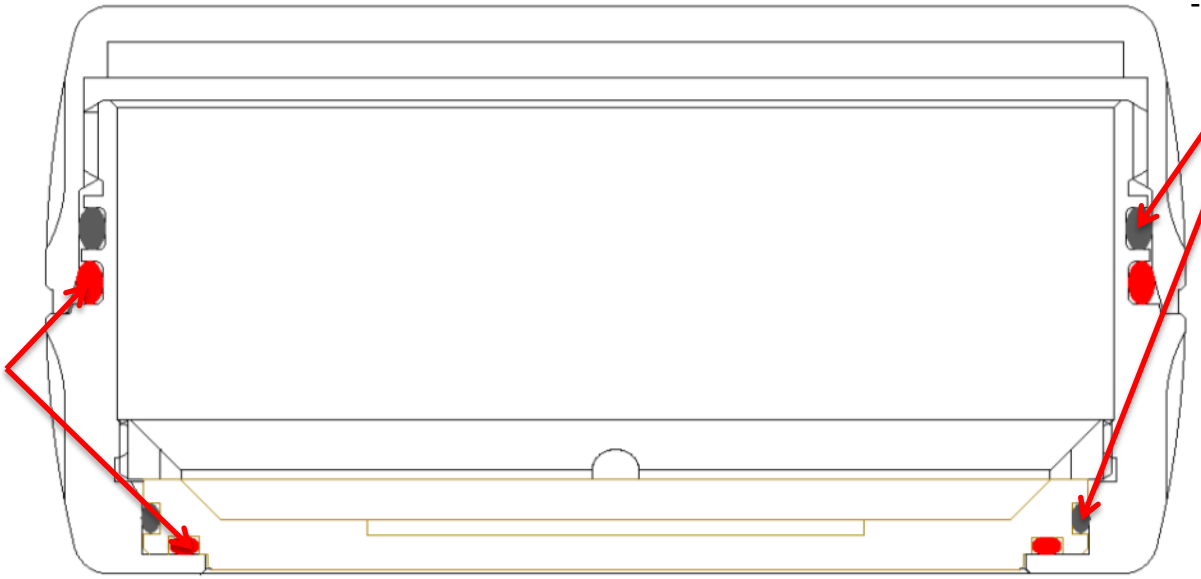
- widest temperature range
- highest resistance against steam

Seal „inside“

EPDM

advantage

- Gas tight



Seal „outside“

Silicone

advantage

- Resistant to chemicals
- Temperature-stable
- Permanently flexible

disadvantage

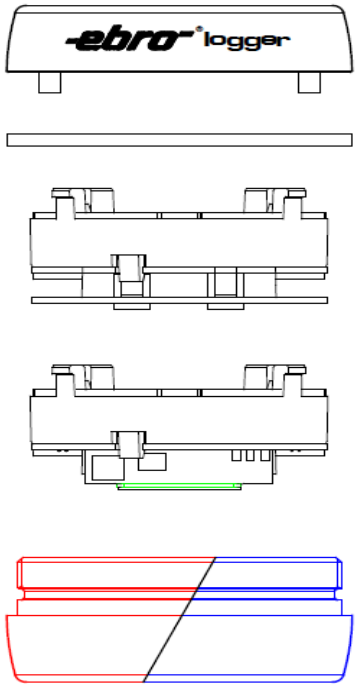
- Not gas tight

-ebro- a xylem brand

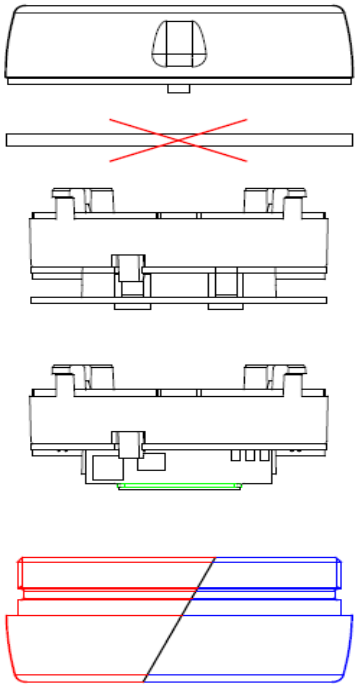
EBI 12 Series “SERVICE”

Compatibility of the Parts EBI 10 ⇔ EBI 12

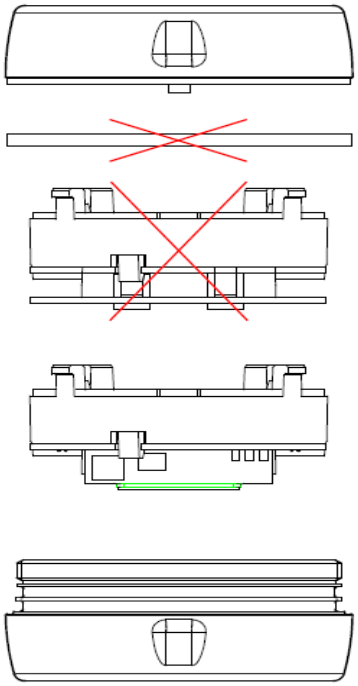
Top Part EBI 10
Distance /Loop EBI 10
~~Loop Ring EBI 12~~
PCB EBI 10
PCB EBI 12
Bottom Part EBI10
1x O-Ring



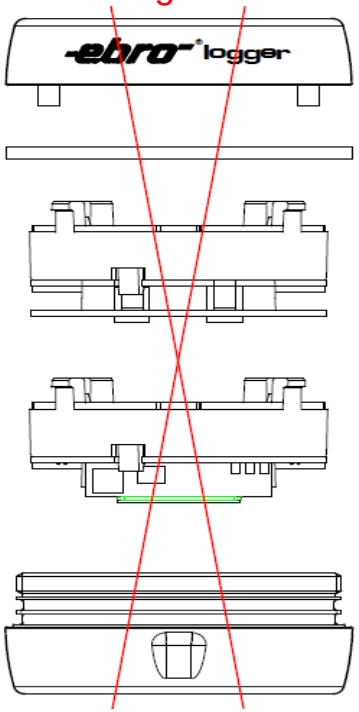
Top Part EBI 12
~~Distance /Loop EBI 10~~
Loop Ring EBI 12
PCB EBI 10
PCB EBI 12
Bottom Part EBI10
1x O-Ring



Top Part EBI 12
~~Distance /Loop EBI 10~~
Loop Ring EBI 12
~~PCB EBI 10~~
PCB EBI 12
Bottom Part EBI12
2x O-Ring



~~Top Part EBI 10~~
~~Distance /Loop EBI 10~~
~~Loop Ring EBI 12~~
~~PCB EBI 10~~
~~PCB EBI 12~~
~~Bottom Part EBI12~~
~~1x O-Ring~~



EBI 12 Series

Accessoires



AL 120 Battery replacement set for EBI 12
Consisting of 3 batteries

AL 104 Battery set for EBI 12
Consisting of 3 batteries and 8 O-Rings with grease.



AL 121 Opening Tool EBI 12
To open the data loggers.
e.g. for battery change



AL 122 eyelet ring EBI 12
For securing the EBI 12 data loggers in process

-ebro- a xylem brand

EBI 12 Series

Accessoires

Silicone protection boxes are full compatible

Silicone protection box
AL 101
for e.g.
EBI 12-TP221, EBI 12-TP321,
EBI 12-TP421 und EBI 12-TP45x



Ø 78 mm, Height: 50 mm

Silicone protection box
AL 107
for e.g.
EBI 12-T24x, EBI 12-T441,
EBI 12-T67x und EBI 12-T471



Ø 78 mm, Height: 44 mm

-ebro-
a xylem brand

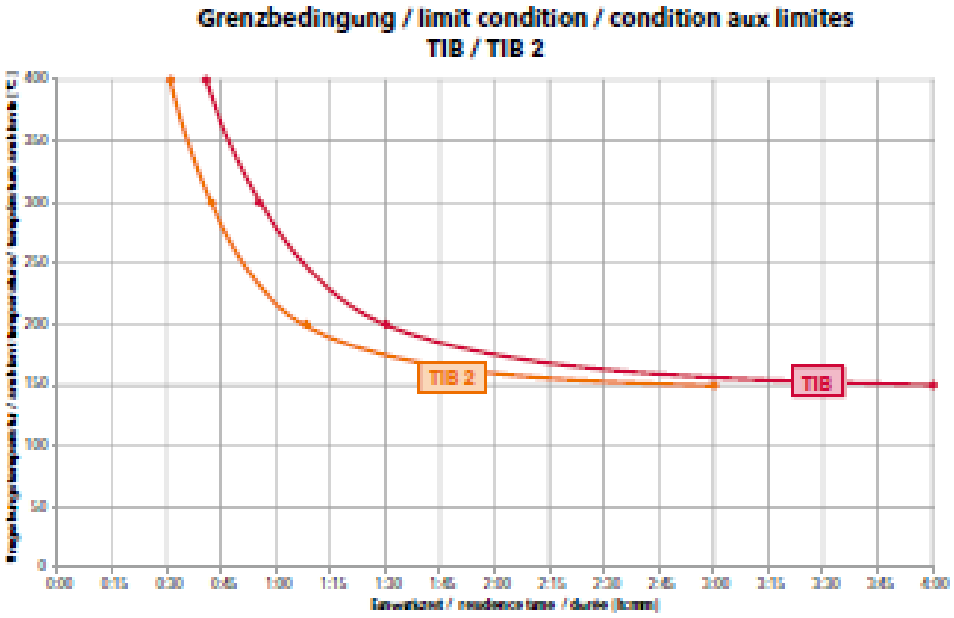
EBI 12 Series

Accessoires

Thermal Isolation Boxes are full compatible

EBI TIB and EBI TIB 2
for
EBI 12-T221 and EBI 12-T421





- Usable from +150 °C bis +400 °C
- Thermal protection of data loggers
- Stainless Steel
- EBI TIB: 160 x 160 x 82 mm
- EBI TIB 2: 160 x 160 x 60 mm

-ebro-
a xylem brand

EBI 12 Series

Accessoires

Interfaces are full compatible



EBI IF-100

EBI IF-150

EBI IF-200

Software is full compatible



From Version 3.7 on

Plant release end of 2017



From Version 2.8 on

Plant release end of 2017

-ebro-
a xylem brand