



# EBI 300 / 310 / 330

USB DATA LOGGERS FOR COLD CHAIN MONITORING



**-ebro-**  
a xylem brand

# 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 USB data loggers are suitable for multi-use, the EBI 330 data loggers are single-use versions which can be ordered preconfigured 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](http://www.ebi300.com) or optional via the 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



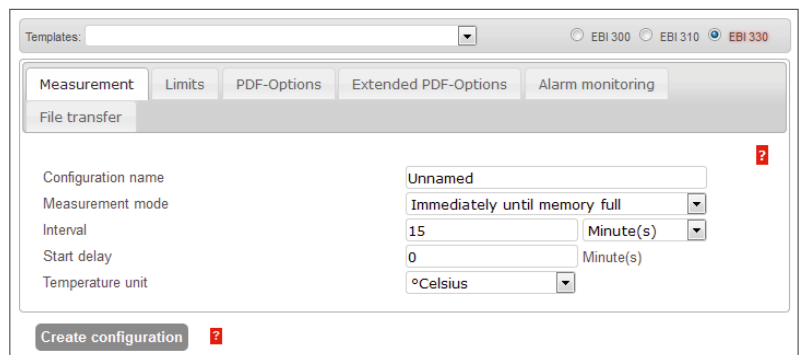
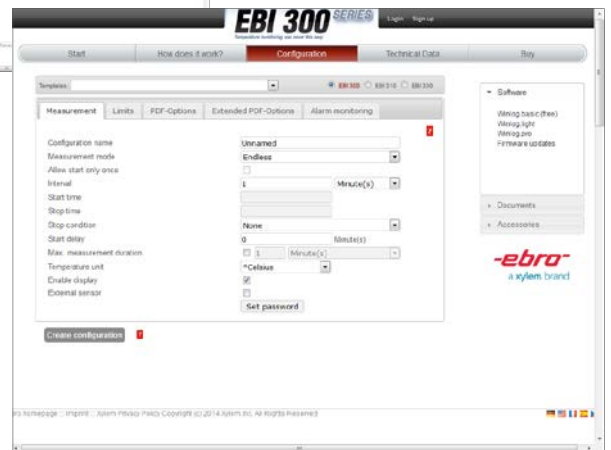
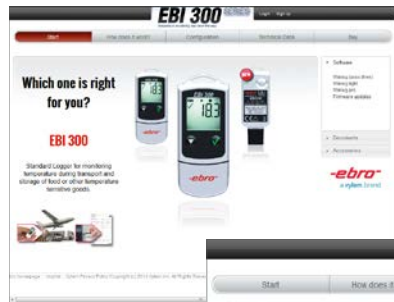
## Evaluate | Archive

- 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.ebi300.com](http://www.ebi300.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



## 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 data logger is right for you?

Every EBI 3x0 USB data logger have 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 330-T30 | EBI 330-T85 | EBI 300 | EBI 300 TE | EBI 300 TH | EBI 310 | EBI 310 TE | EBI 310 DI | EBI 310 TX | EBI 310 TH |
|--|-------------|-------------|---------|------------|------------|---------|------------|------------|------------|------------|
| <b>Applications</b>                                  |             |             |         |            |            |         |            |            |            |            |
| Monitoring of deep temperatures                      |             | ✓           |         |            |            |         | ✓          | ✓          | ✓*         |            |
| Monitoring of high temperatures                      |             |             |         |            |            |         | ✓          |            | ✓*         |            |
| Humidity monitoring                                  |             |             |         |            | ✓          |         |            |            |            | ✓          |
| Storage monitoring                                   |             |             | ✓       | ✓          | ✓          | ✓       | ✓          | ✓          | ✓*         | ✓          |
| Transport monitoring                                 | ✓           | ✓           | ✓       | ✓          | ✓          | ✓       | ✓          | ✓          | ✓*         | ✓          |
| Process monitoring                                   |             |             |         | ✓          | ✓          |         | ✓          |            | ✓*         | ✓          |
| Usage within dry ice                                 |             | ✓           |         |            |            |         |            | ✓          |            |            |
| <b>Measurement channels</b>                          |             |             |         |            |            |         |            |            |            |            |
| Internal temperature channel                         | ✓           | ✓           | ✓       | ✓          | ✓          | ✓       | ✓          | ✓          | ✓          | ✓          |
| External temperature channel                         |             |             |         | 1          | 1          |         | 1          | 1          | 2 *        | 1          |
| Sensor cable   |             |             |         | ✓          |            |         | ✓          | ✓          | ✓*         |            |
| High precision (Pt 1000)                             |             | ✓           |         |            |            | ✓       | ✓          | ✓          | ✓          | ✓          |
| Humidity channel                                     |             |             |         |            | ✓          |         |            |            |            | ✓          |
| <b>Usage</b>   |             |             |         |            |            |         |            |            |            |            |
| Multi-use  |             |             | ✓       | ✓          | ✓          | ✓       | ✓          | ✓          | ✓          | ✓          |
| Single-use   | ✓           | ✓           |         |            |            |         |            |            |            |            |
| <b>Calibration certificate</b>                       |             |             |         |            |            |         |            |            |            |            |
| Including factory calibration certificate            |             |             | ✓       | ✓          | ✓          | ✓       | ✓          | ✓          | ✓*         | ✓          |
| Batch calibration certificate available upon request | ✓           | ✓           |         |            |            |         |            |            |            |            |
| <b>Other features</b>                                |             |             |         |            |            |         |            |            |            |            |
| Display  |             |             | ✓       | ✓          | ✓          | ✓       | ✓          | ✓          | ✓          | ✓          |
| Very flexible alarms (5 limits and MKT)              |             |             |         |            |            | ✓       | ✓          | ✓          | ✓          | ✓          |
| High memory capacity (120.000 measurements)          |             |             |         |            |            | ✓       | ✓          | ✓          | ✓          | ✓          |

\* with connected, exchangeable sensors

# EBI 330 Single-Use USB Data Loggers

## General technical specifications: valid for both EBI 330 data logger types\*

|                        |   |
|------------------------|---|
| Memory capacity        | 20,000 measurements   |
| Alarm                  | 2 limits  |
| PDF creation           | PDF/A 1b  |
| LED                    | Yes (red and green)   |
| Resolution             | 0.1 °C  |
| Storage temperature    | -40 °C ... +85 °C (-40 °F ... +185 °F)  |
| Sample rate            | 1 min. to 24 hours  |
| Measurement modes      | <ul style="list-style-type: none"> <li>Start with key press</li> <li>Start immediately until end of memory</li> </ul> |
| Maximum start delay    | 24 h  |
| Dimensions (L x W x H) | 80 x 28 x 12 mm   |
| Housing material       | ABS   |
| Protection class       | IP 65   |
| Certificate            | Batch calibration certificate available on request  |

\* Please find the exact technical data of each EBI 330 data logger type on this page.

## EBI 330-T30 Single-Use USB Data Logger Standard version



### Technical Data

|   |  |
|---|--|
| Measurement range/operating temperature | -30 °C ... +60 °C (-22 °F ... +140 °F)   |
| Accuracy                                | ±0.5 °C (-20 °C ... +40 °C / -4 °F ... +104 °F)<br>±0.8 °C for the remaining measurement range |
| Sensor                                  | NTC  |
| Battery                                 | Lithium button cell (CR2032), 3V   |
| Battery lifetime                        | 100 days   |

## EBI 330-T85 Single-Use USB Data Logger Low temperature version



### Technical Data

|   |  |
|---|--|
| Measurement range/operating temperature | -85 °C ... +50 °C (-121 °F ... +122 °F)  |
| Accuracy                                | ±2.0 °C (-85 °C ... -30 °C / -85 °F ... -22 °F)<br>±0.8 °C (-30 °C ... -20 °C / -22 °F ... -4 °F)<br>±0.5 °C (-20 °C ... +50 °C / -4 °F ... +122 °F) |
| Sensor                                  | Pt 1000  |
| Battery                                 | Lithium button cell (TL-2450), 3.6 V   |
| Battery lifetime                        | 100 days at temperatures down to -30 °C (-22 °F);<br>100 hours at temperature below -30 °C (-22 °F)  |

# EBI 300 Multi-Use USB Data Loggers

## General technical specifications: valid for EBI 300 data logger types\*

|                     |  |
|---------------------|--|
| Memory capacity     | 40,000 measurements  |
| Alarm               | 2 limits   |
| PDF creation        | PDF  |
| LED                 | Yes (red)  |
| Storage temperature | -40 °C ... +85 °C (-40 °F ... +185 °F)   |
| Sample rate         | 1 min ... 24 h   |
| Measurement modes   | <ul style="list-style-type: none"> <li>• Endless measurement</li> <li>• Start / Stop</li> <li>• Measurement until end of memory</li> <li>• Start with key press</li> </ul> |
| Display             | Value, MIN / MAX, until end of memory, alarm on / off  |
| Maximum start delay | 72 h   |
| Housing material    | Polycarbonate  |
| Certificate         | Factory calibration certificate  |
| Battery             | Lithium button cell (CR 2450), 3 V   |
| Battery lifetime    | Up to 2 years, depending on applications   |
| Norms               | DIN EN 12830   |

\* Please find the exact technical data of each EBI 300 data logger type on this double page.

## EBI 300 Multi-Use USB Data Logger Standard version



### Technical Data

|   |  |
|---|--|
| Measurement range/operating temperature | -30 °C ... +70 °C (-22 °F ... +158 °F)<br><i>By connecting an external probe, the temperature measurement range can be extended.</i> |
| Accuracy                                | ±0.5 °C (-20 °C ... +40 °C / -4 °F ... +104 °F)<br>±0.8 °C for the remaining measurement range                                       |
| Sensor                                  | NTC  |
| Resolution                              | 0.1 °C   |
| Dimensions (L x W x H)                  | 80 x 33 x 14 mm  |
| Protection class                        | IP 65  |



The device has been certified together with the EB 4401 food inspection case.

## Accessories for EBI 300, EBI 300 TE and EBI 300 TH



EBI 300 TE + EBI 300 WM2



EBI 300-WM2 Wall Mount for EBI 300 / 310



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

## EBI 300 TE Multi-Use USB Data Logger with external temperature probe

### Fast, flexible core temperature measurements



#### Technical Data

|  |  |
|--|--|
| Measurement range external temperature                         | -35 °C ... +70 °C (-31 °F ... +158 °F)   |
| Measurement range internal temperature / operating temperature | -30 °C ... +70 °C (-22 °F ... +158 °F)   |
| Accuracy (internal and external)                               | ± 0.5 °C (-20 °C ... +40 °C / -4 °F ... +104 °F)<br>± 0.8 °C for the remaining measurement range |
| Probe  | NTC, Stainless steel, Ø 4mm, L = 50mm, pointed   |
| Cable  | PVC, L = 1m, waterproof, oilproof and food safe  |
| Resolution   | 0.1 °C   |
| Dimensions (L x W x H)   | 91 x 33 x 14mm   |
| Protection class   | IP 65  |

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

## EBI 300 TH Multi-Use USB Data Logger with external humidity and temperature probe

### Relative humidity monitoring in storages and during transports



#### Technical Data

|   |  |
|---|--|
| Measurement range temperature / operating temperature | -30 °C ... +70 °C (-22 °F ... +158 °F)   |
| Accuracy (internal)                                   | ± 0.5 °C (-20 °C ... +40 °C / -4 °F ... +104 °F)<br>± 0.8 °C for the remaining measurement range |
| Accuracy (external)                                   | ± 0.5 °C (-20 °C ... +40 °C / -4 °F ... +104 °F)<br>± 1.0 °C for the remaining measurement range |
| Probe temperature                                     | 0% rH ... 100% rH  |
| Measurement range humidity                            | ± 3% between 10% rH ... 90% rH (at 25 °C / +77 °F)<br>± 5% for the remaining measurement range   |
| Accuracy humidity                                     | ± 3% between 10% rH ... 90% rH (at 25 °C / +77 °F)<br>± 5% 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 14mm  |
| Protection class                                      | IP 20  |

- Internal temperature probe usable additionally

# EBI 310 Multi-Use USB Data Loggers

## 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   | <ul style="list-style-type: none"> <li>• Endless measurement</li> <li>• Start / Stop</li> <li>• Measurement until end of memory</li> <li>• Start with key press</li> </ul> |
| 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   |

\* Please find the exact technical data of each EBI 310 data logger type on the next pages.

## EBI 310 Multi-Use USB Data Logger High precision version



### Technical Data

|   |  |
|---|--|
| Measurement range/operating temperature | -30 °C ... +75 °C (-22 °F ... +167 °F)<br><i>By connecting an external probe, the temperature measurement range can be extended.</i> |
| Accuracy                                | ± 0.2 °C (-30 °C ... +30 °C / -22 °F ... +86 °F)<br>± 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   |

## Accessories for the EBI 310, EBI 310 TE, EBI 310 DI, EBI 310 TX and EBI 310 TH



**EBI 300-WM2** Wall Mount for EBI 300 / 310



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



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

### Measurement of high and low temperatures



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

#### Technical Data

|  |  |
|--|--|
| Measurement range external temperature                         | -200°C ... +250°C (-328 °F ... +482 °F)  |
| Measurement range internal temperature / operating temperature | -30 °C ... +75°C (-22 °F ... +167 °F)  |
| Accuracy (internal)  | ± 0.2 °C (-30 °C ... +30 °C / -22 °F ... +86 °F)<br>± 0.5 °C for the remaining measurement range   |
| Accuracy (external)  | ± 2.0 °C (-200 °C ... -100 °C / -328 °F ... -148 °F)<br>± 1.0 °C (-100 °C ... -20 °C / -148 °F ... -4 °F)<br>± 0.2 °C (-20 °C ... +60 °C / -4 °F ... +160 °F)<br>± 0.5 °C (+60 °C ... +250 °C / +160 °F ... +482 °F) |
| Probe  | Pt 1000, Stainless steel, Ø 5mm, L = 50mm, blunt   |
| Cable  | PTFE, L = 1m, 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   |

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

### Precise temperature measurements in dry ice



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

#### 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)<br>± 0.5 °C for the remaining measurement range     |
| Accuracy (external)  | ± 1.0 °C (-85 °C ... -20 °C / -121 °F ... -4 °F)<br>± 0.2 °C (-20 °C ... +50 °C / -4 °F ... +122 °F) |
| Probe  | Pt 1000, Stainless steel, Ø 5mm, L = 50mm, blunt   |
| Cable  | PTFE, L = 60cm, waterproof, oilproof and food safe   |
| Resolution   | 0.1 °C   |
| Dimensions (L x W x H)   | 100 x 33 x 14mm  |
| Protection class   | IP 65  |
| Battery  | Lithium button cell in the logger, lithium battery in the probe, both changeable by the user         |
| Battery life time  | Up to 2 years, depending on applications   |

## EBI 310 TH Multi-Use USB Data Logger with with external humidity and temperature probe

Relative humidity monitoring in storages and during transports



### 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)<br>± 0.5 °C for the remaining measurement range |
| Accuracy (external)                                   | ± 0.5 °C (0 °C ... + 60 °C / +32 °F ... +140 °F)<br>± 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)<br>± 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 14mm  |
| Protection class                                      | IP 20  |
| Battery   | Lithium button cell (CR 2450), 3V  |
| Battery life time                                     | Up to 2 years, depending on applications   |

- Internal temperature probe usable additionally

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

Temperature monitoring in storages and during transport, process monitoring



exchangeable sensors

### Technical Data

|  |  |
|--|--|
| Measurement range external temperature                         | -200°C ... + 400°C (-328 °F ... +752 °F),<br>dependent on probe type                               |
| Measurement range internal temperature / operating temperature | -30 °C ... +75°C (-22 °F ... +167 °F)  |
| Accuracy (internal)  | ± 0.2 °C (- 30 °C ... + 30 °C / -22 °F ... +86 °F)<br>± 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 14mm  |
| Protection class   | IP 65  |
| Battery  | Lithium button cell (CR 2450), 3V  |
| Battery life time  | Up to 2 years, depending on applications   |

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

## Exchangeable probes for EBI 310 TX



### TPX 310-P1

- Measurement range:  
-200 °C ... +200 °C (-328 °F ... +392 °F)
- Needle: L = 45 mm, Ø = 5 mm, blunt
- Cable: PTFE, L = 3 m

| Temperature    | Accuracy              |
|----------------|-----------------------|
| -200...-100 °C | -328...-148 °F 1.7 °C |
| -100...-20 °C  | -148...-4 °F 1.2 °C   |
| -20...+60 °C   | -4...+140 °F 1.0 °C   |
| +60...+200 °C  | +140...+392 °F 1.7 °C |



### TPX 310-P2

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

| 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, Ø = 3 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, Ø = 1.5 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              |
|---------------|-----------------------|
| -50...-20 °C  | -58...-4 °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 |

## How to order:

| Type        | Description   | Part No.  |
|-------------|---|-----------|
| EBI 330-T30 | Single-use USB data logger,<br><b>package unit: 10 pieces</b>                       | 1340-6332 |
| EBI 330-T85 | Single-use USB data logger for deep temperatures,<br><b>package unit: 10 pieces</b> | 1340-6333 |
| EBI 300     | Standard USB Data Logger  | 1340-6330 |
| EBI 300 TE  | USB Data logger with external temperature probe                                     | 1340-6335 |
| TPC 300     | Replacement probe for EBI 300 TE  | 1341-6331 |
| EBI 300 TH  | USB Data logger with external humidity probe  | 1340-6334 |
| TPH 400     | Replacement probe for EBI 300 TH  | 1341-6336 |
| EBI 310     | High Precision USB Data Logger  | 1340-6331 |
| EBI 310 TE  | USB Data logger with external precision temperature probe                           | 1340-6337 |
| TPX 220     | Replacement probe for EBI 310 TE  | 1341-6332 |
| EBI 310 DI  | USB Data logger for dry ice measurements  | 1340-6338 |
| TPX 250     | Replacement probe for EBI 310 DI  | 1341-6333 |
| EBI 310 TH  | USB Data logger with external humidity probe  | 1340-6336 |
| TPH 500     | Replacement probe for EBI 310 TH  | 1341-6337 |
| EBI 310 TX  | USB Data logger with temperature-two-channel-adapter                                | 1340-6339 |
| TPX 310     | Replacement adapter for EBI 310 TX  | 1341-6335 |
| 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 |
| EBI 300-WM2 | Wall Mount for EBI 300 / 310  | 1340-6341 |
| EBI 300 WM3 | Transportation mount for EBI 300/310  | 1340-6344 |



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