

# Temperature Data Logger

## EBI 10-series



Technical Data	
<b>Type</b>	<b>EBI 10-T220/221</b>
Measuring range	-85°C ... +400°C (-121°F ... 752°F)
Accuracy	±0.5°C (-85°C ... -40°C) / ±0.9°F (-121°F ... - 40°F) ±0.2°C (-40°C ... 0°C) / ±0.4°F (-40°F ... 32°F) ±0.1°C (0°C ... +140°C) / ±0.2°F (32°F ... 284°F) ±0.2°C (+140°C...+250°C)/±0.4°F (284°F... 482°F) ±0.5°C (+250°C...+400°C)/±0.9°F (482°F...752°F)
Resolution	temperature: 0.01°C (0.02°F)
Measuring rate	250 ms, 500 ms, 1 s – 24 h
Memory	100,000 measured values
Operating temperature	-85°C ... +150°C ** (-121°F ... 302°F) **
Operating pressure	up to 20 bar
Sensor	1 temp. (Pt 1000), ext., radial <b>T220:</b> Ø 1.5 mm / L = 250 mm <b>T221:</b> Ø 1.5 mm / L = 500 mm
Measuring mode	· endless · measure upon start temperature · measure upon start time · start/stop time · start immediately until end of memory
Communication	wireless 2.4 GHz/IEEE 802.15.4
Eyelet, optional	provided with every type of EBI 10
Battery	3.6 V, by user replaceable
Size / Weight	Ø 46 x 24 mm* / approx. 70 g*
Housing	stainless steel (V4A) / PEEK
Protection class	IP 68 / NEMA 6

Technical Data	
<b>Type</b>	<b>EBI 10-T240/241/441</b>
Measuring range	-85°C ... +400°C (-121°F ... 752°F)
Accuracy	±0.5°C (-85°C ... -40°C) / ±0.9°F (-121°F ... - 40°F) ±0.2°C (-40°C ... 0°C) / ±0.4°F (-40°F ... 32°F) ±0.1°C (0°C ... +140°C) / ±0.2°F (32°F ... +284°F) ±0.2°C (+140°C ... +250°C) / ±0.4°F (284°F...482°F) ±0.5°C (+250°C...+400°C) / ±0.9°F (482°F...752°F)
Resolution	temperature: 0.01°C (0.02°F)
Measuring rate	250 ms, 500 ms, 1 s – 24 h
Memory	100,000 measured values
Operating temperature	-85°C ... +150°C ** (-121°F ... 302°F) **
Operating pressure	up to 20 bar
Sensor	1 temp. (Pt 1000), ext., axial <b>T240:</b> Ø 1,5 mm / L = 250 mm <b>T241:</b> Ø 1,5 mm / L = 500 mm <b>T441:</b> 2 temp. (Pt 1000), extern., axial / Ø 1,5 mm / L = 500 mm
Measuring mode	· endless      · start/stop time · measure upon start temperature · measure upon start time · start immediately until end of memory
Communication	Wireless 2.4 GHz/IEEE 802.15.4
Eyelet, optional	provided with every type of EBI 10
Battery	3.6 V, by user replaceable
Size / Weight	Ø 46 x 24 mm* / approx. 70 g*
Housing	stainless steel (V4A) / PEEK
Protection class	IP 68 / NEMA 6

Technical Data	
<b>Type</b>	<b>EBI 10-T230</b>
Measuring range	-40°C ... +150°C (-40°F ... 302°F)
Accuracy	±0.2°C (-40°C ... 0°C) / ±0.4°F (-40°F ... 32°F) ±0.1°C (0°C ... +140°C) / ±0.2°F (32°F ... 284°F) ±0.2°C (+140°C...+150°C)/±0.4°F (284°F...302°F)
Resolution	temperature: 0.01°C (0.02°F)
Measuring rate	1s – 24h
Memory	100,000 measured values
Operating temperature	-85°C ... +150°C** (-121°F ... 302°F) **
Operating pressure	up to 20 bar
Sensor	1 temperature, Pt 1000, external, axial channel 1
Measuring mode	· endless · measure upon start temperature · measure upon start time · start/stop time · start immediately until end of memory
Communication	wireless 2.4 GHz/IEEE 802.15.4
Eyelet, optional	provided with every type of EBI 10
Battery	3.6 V, by user replaceable
Size / Weight	Ø 46 mm x H=24 mm* approx. 70 g*
Housing	stainless steel (V4A) / PEEK
Protection class	IP 68 / NEMA 6

\* Size and weight are shown for EBI 10 body only  
\*\* For measurements over +150°C (302°F) EBI TIB must be used

**Applications**

- Use EBI TIB for measuring in dry heat sterilizers and furnaces up to +350°C (+662°F)

**Applications**

- Probe length 250 mm and 500 mm. Probe bendable to reach inaccessible places
- Validation of washer-disinfectors, autoclaves and SIP systems

**Applications**

- Probe length 500 mm. Probe bendable to reach inaccessible places
- Validation of washer-disinfectors and autoclaves

Description	Type	Part No.
Temperature Data Logger	EBI 10-T220	1340-6104
Temperature Data Logger	EBI 10-T221	1340-6105
Thermal Insulation Box	EBI TIB	1340-1894

Description	Type	Part No.
Temperature Data Logger	EBI 10-T240	1340-6111
Temperature Data Logger	EBI 10-T241	1340-6112
Temperature Data Logger	EBI 10-T441	1340-6129

Description	Type	Part No.
Temperature Data Logger	EBI 10-T230	1340-6106

# Pressure-Temperature Data Logger

## EBI 10-series



Technical Data	
<b>Type</b>	<b>EBI 10-TP221</b>
<b>Measuring range</b>	0°C ... +150°C (32°F ... 302°F) 1 mbar ... 4000 mbar
<b>Accuracy</b>	±0.1°C (0°C ... +140°C) / ±0.2°F (32°F ... 284°F) ±0.2°C (+140°C...+150°C) / ±0.4°F (284°F...302°F) ±10 mbar
<b>Resolution</b>	temperature: 0.01°C (0.02°F) pressure: 1 mbar
<b>Measuring rate</b>	250 ms, 500 ms, 1 s – 24 h
<b>Memory</b>	2 x 50,000 measured values
<b>Operating temp.</b>	0°C ... +150°C (32°F ... 302°F)
<b>Operating pressure</b>	up to 7 bar
<b>Sensor</b>	1 temp. (Pt 1000), external, axial, Ø 1.5 mm / L = 500 mm 1 pressure
<b>Measuring mode</b>	· endless · measure upon start temperature · measure upon start time · start/stop time · start immediately until end of memory
<b>Communication</b>	wireless 2.4 GHz / IEEE 802.15.4
<b>Eyelet, optional</b>	provided with every type of EBI 10
<b>Battery</b>	by user replaceable
<b>Size / Weight</b>	Ø 46 x 24 mm* / approx. 70 g*
<b>Housing material</b>	stainless steel (V4A) / PEEK
<b>Protection class</b>	IP 68 / NEMA 6

Technical Data	
<b>Type</b>	<b>EBI 10-TP321</b>
<b>Measuring range</b>	0°C ... +150°C (32°F ... 302°F) 1 mbar ... 4000 mbar
<b>Accuracy</b>	±0.1°C (0°C ... +140°C) / ±0.2°F (32°F ... 284°F) ±0.2°C (+140°C...+150°C) / ±0.4°F (284°F...302°F) ±10 mbar
<b>Resolution</b>	temperature: 0.01°C (0.02°F) pressure: 1 mbar
<b>Measuring rate</b>	250 ms, 500 ms, 1 s – 24 h
<b>Memory</b>	3 x 33.334 measured values
<b>Operating temp.</b>	0°C ... +150°C (32°F ... 302°F)
<b>Operating pressure</b>	up to 7 bar
<b>Sensor</b>	2 temp. (Pt 1000), external, axial, Ø 1.5 mm / L = 500 mm 1 pressure
<b>Measuring mode</b>	· endless · measure upon start temperature · measure upon start time · start/stop time · start immediately until end of memory
<b>Communication</b>	wireless 2.4 GHz / IEEE 802.15.4
<b>Eyelet, optional</b>	provided with every type of EBI 10
<b>Battery</b>	by user replaceable
<b>Size / Weight</b>	Ø 46 x 24 mm* / approx. 70 g*
<b>Housing material</b>	Stainless steel (V4A) / PEEK
<b>Protection class</b>	IP 68 / NEMA 6

Technical Data	
<b>Type</b>	<b>EBI 10-TP421</b>
<b>Measuring range</b>	0°C ... +150°C (32°F ... +302°F) 1 mbar ... 4000 mbar
<b>Accuracy</b>	±0.1°C (0°C ... +140°C) / ±0.2°F (32°F ... 284°F) ±0.2°C (+140°C...+150°C) / ±0.4°F (284°F...302°F) ±10 mbar
<b>Resolution</b>	temperature: 0.01°C (0.02°F) pressure: 1 mbar
<b>Measuring rate</b>	250 ms, 500 ms, 1 s – 24 h
<b>Memory</b>	4 x 25,000 measured values
<b>Operating temp.</b>	0°C ... +150°C (32°F ... 302°F)
<b>Operating pressure</b>	up to 7 bar
<b>Sensor</b>	3 temp. (Pt 1000), external, axial, Ø 1.5 mm / L = 500 mm 1 pressure
<b>Measuring mode</b>	· endless · start/stop time · measure upon start temperature · measure upon start time · start immediately until end of memory
<b>Communication</b>	wireless 2.4 GHz / IEEE 802.15.4
<b>Eyelet, optional</b>	provided with every type of EBI 10
<b>Battery</b>	by user replaceable
<b>Size / Weight</b>	Ø 46 x 24 mm* / approx. 70 g*
<b>Housing material</b>	stainless steel (V4A) / PEEK
<b>Protection class</b>	IP 68 / NEMA 6

\* Size and weight are shown for EBI 10 body only

Applications
<ul style="list-style-type: none"> <li>• For wireless temperature and pressure measurements</li> <li>• Especially for the validation of steam sterilizers and washer-disinfectors with 1 external temperature sensor</li> </ul>

Applications
<ul style="list-style-type: none"> <li>• For wireless temperature and pressure measurements</li> <li>• Especially for the validation of steam sterilizers and washer-disinfectors with 2 external temperature sensors</li> </ul>

Applications
<ul style="list-style-type: none"> <li>• For wireless temperature and pressure measurements</li> <li>• Especially for the validation of steam sterilizers and washer-disinfectors with 3 external temperature sensors</li> </ul>

Description	Type	Part No.
Pressure/Temperature Data Logger	EBI 10-TP221	1340-6153

Description	Type	Part No.
Pressure/Temperature Data Logger	EBI 10-TP321	1340-6161

Description	Type	Part No.
Pressure/Temperature Data Logger	EBI 10-TP421	1340-6162