

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



Measurement of high and low temperatures



EBI 310 TE

- 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) ± 0.5 °C for the remaining measurement range
Accuracy (external)	± 2.0 °C (- 200 °C ... -100 °C / -328 °F ... -148 °F) ± 1.0 °C (- 100 °C ... -20 °C / -148 °F ... -4 °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 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

Type	Description	Part No.
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 Multi-Use USB Data Logger for dry ice measurements



Precise temperature measurements in dry ice



EBI 310 DI

- 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) ± 0.5 °C for the remaining measurement range
Accuracy (external)	± 1.0 °C (- 85 °C ... -20 °C / -121 °F ... -4 °F) ± 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

Type	Description	Part No.
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 Multi-Use USB Data Logger with with external humidity and temperature probe



Relative humidity monitoring in storages and during transports



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 14mm
Protection class	IP 20
Battery	Lithium button cell (CR 2450), 3V
Battery life time	Up to 2 years, depending on applications

Filter caps for the protection of the humidity probe available; see page 138.

- Internal temperature probe usable additionally

Type	Description	Part No.
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 Multi-Use USB Data Logger with temperature-two-channel-adapter



Temperature monitoring in storages and during transport, process monitoring



EBI 310 TX



exchangeable sensors

Technical Data

Measurement range external temperature	-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)	± 0.2 °C (- 30 °C ... + 30 °C / -22 °F ... +86 °F) ± 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

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