

Регистраторы данных для мониторинга EBI 310

Технические характеристики

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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	• Endless measurement • Start / Stop • Measurement until end of memory • Start with key press
Display	Value, MIN / MAX, until end of memory, alarm on / off
Maximum start delay	72 h
Housing material	Polycarbonate
Certificate	Factory calibration certificate

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

EBI 310 Multi-Use PDF Data Logger

High precision version

**Technical Data**

Measurement range/operating temperature	-30 °C ... +75 °C (-22 °F ... +167 °F) <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) ± 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	IP65
Battery	Lithium button cell (CR 2450), 3 V
Battery lifetime	Up to 2 years, depending on applications
Factory calibration certificate	-20 °C, 0 °C and +60 °C

Type	Description	Part No.
EBI 310	High Precision PDF Data Logger	1340-6331A

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



EBI 300-WM2 Wall Mount for EBI 310



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

Type	Description	Part No.
EBI 300-WM2	Wall Mount for EBI 310	1340-6341
EBI 300 WM3	Transportation mount for EBI 310	1340-6344

EBI 310 TE Multi-Use PDF 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 5 mm, L = 50 mm, blunt
Cable	PTFE, L = 1 m, waterproof, oilproof and food safe
Resolution	0.1 °C
Dimensions (L x W x H)	91 x 33 x 14 mm
Protection class	IP65
Battery	Lithium button cell (CR 2450), 3V
Battery life time	Up to 2 years, depending on applications
Factory calibration certificate	-80 °C, 0 °C, +60 °C and +134 °C

Type	Description	Part No.
EBI 310 TE	PDF Data logger with external precision temperature probe	1340-6337A
TPX 220	Replacement probe for EBI 310 TE	1341-6332A
TPX 220-3	Replacement probe with 3 m cable for EBI 310 TE	1341-6332-0100A



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

Relative humidity monitoring in storages and during transports



EBI 310 TH

You can find suitable filter caps for humidity sensors online at

- Internal temperature probe usable additionally

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 14 mm
Protection class	IP20
Battery	Lithium button cell (CR 2450), 3V
Battery life time	Up to 2 years, depending on applications
Factory calibration certificate	0 °C and +20 °C; 32.8 % and 75.4 % rH

Type	Description	Part No.
EBI 310 TH	PDF Data logger with external humidity probe	1340-6336A
TPH 500	Replacement probe for EBI 310 TH	1341-6337A
AH 100	PTFE filter	1340-5627
AH 300	Stainless steel sintered filter	1340-5625

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

Temperature monitoring in storages and during transport, process monitoring



EBI 310 TX



exchangeable sensors

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

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 14 mm
Protection class	IP65
Battery	Lithium button cell (CR 2450), 3V
Battery life time	Up to 2 years, depending on applications
Factory calibration certificate	-200 °C, 0 °C and +400 °C

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

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

Type	Description	Part No.
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



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