



General technical specifications: valid for all types*

Resolution: Temperature	0.1 °C (0.2 °F)
Resolution: Humidity (only humidity data loggers)	0.1 % rH
Measurement mode	<ul style="list-style-type: none"> • Endless measurement • Start immediately until end of memory • Start / stop measurement • Start with key press
Operating temperature	-30 °C ... +70 °C (-22 °F ... +158 °F)
Storage temperature	-40 °C ... +70 °C (-40 °F ... +158 °F)
Battery	3 V lithium (CR2450), user replaceable
Battery lifetime	Up to 24 months, at a sampling rate of 15 min. at +25 °C (77 °F)
Housing material	ABS
Dimensions (L x W x H)	69 x 48 x 22 mm**
Weight	Approximately 45 g**
Certificate	Factory calibration certificate

* Please find the exact technical data of each EBI 20 logger type on the next pages.

** Dimensions and weight just refer to the EBI 20 housing.

EBI 20-T1 Standard Temperature Data Logger with internal temperature sensor



Technical Data

Measurement range	-30 °C ... +70 °C (-22 °F ... +158 °F) (please see the note on the next page)
Accuracy	±0.5 °C (-20 °C ... +40 °C) / ±0.9 °F (-4 °F ... 104 °F) ±0.8 °C (±1.4 °F) for the remaining measurement range
Data memory	1 channel, 40,000 measurements
Sensor	NTC
Sampling rate	1 min to 24 hours
Protection class	IP 67

Type	Description	Part No.
EBI 20 T1	Temperature logger	1601-0042

EBI 20-TE1 Standard Temperature Data Logger with external probe



Technical Data

Measurement range	-30 °C ... +70 °C (-22 °F ... +158 °F) (please see the note on the next page)
Accuracy	±0.5 °C at -20 °C ... +40 °C (±0.9 °F at -4 °F ... 104 °F) ±0.8 °C (±1.4 °F) for the remaining measurement range
Data memory	1 channel, 40,000 measurements
Sensor	NTC, 55 mm, Ø 3 mm, pointed
Sampling rate	1 min to 24 h
Cable	Silicone, L = 0.8 m
Protection class	IP 67

Type	Description	Part No.
EBI 20-TE1	Temperature logger with external probe	1601-0043

EBI 20-TF Standard Temperature Data Logger with external probe up to +100 °C (+212 °F)



Technical Data

Measurement range	0 °C ... +100 °C (+32 °F ... +212 °F)
Accuracy	±0.5 °C (+50 °C ... +100 °C) ±1 °C for the remaining measurement range
Data memory	1 channel, 8,000 measurements
Sensor	NTC, 55 mm, Ø 3 mm, pointed
Sampling rate	Adjustable from 1 sec to 24 hours
Cable	Silicone, L = 0.8 m
Protection class	IP 67

Type	Description	Part No.
EBI 20-TF	Temperature data logger with external probe	1601-0010

EBI 20-TH1 Standard Temperature / Humidity Data Logger with internal humidity sensor



Technical Data

Measurement range: humidity	0% rH ... 100% rH
Accuracy: humidity	±3% rH (10% rH ... 90% rH)
Measurement range: temperature	-30 °C ... +70 °C (-22 °F ... +158 °F) (please see the note below)
Accuracy: temperature	±0.5 °C at -20 °C ... +40 °C (±0.9 °F at -4 °F ... 104 °F) ±0.8 °C (±1.4 °F) for the remaining measurement range
Data memory	40,000 measurements
Channels	channel 1: relative humidity, channel 2: temperature
Sensor	NTC, capacitive humidity sensor
Sampling rate	1min ... 24h
Protection class	IP 52

Type	Description	Part No.
EBI 20-TH1	Temperature/Humidity Data Logger	1601-0044

Sets and Accessories for EBI 20



EBI 20-T1-Set Temperature logger set (temperature logger, evaluation software, interface)



EBI 20-TE1-Set Temperature logger set (logger with external probe, evaluation software, interface)



EBI 20-TF-Set Temperature logger set (logger with external probe up to +100 °C (+212 °F), evaluation software, interface)



EBI 20-TH1-Set Temperature Humidity Logger Set (Logger, Evaluation software, Interface)



EBI 20-IF Interface



EBI 20-WM wall bracket



EBI 20-WM-1 truck wall bracket



The temperature measurement range of some EBI 20 models has been increased from +60 °C to +70 °C. This may require an update of the Winlog software.

Type	Description	Part No.
EBI 20-T1-Set	Temperature logger set (temperature logger, evaluation software, interface)	1601-0046
EBI 20-TE1-Set	Temperature logger set (logger with external probe, evaluation software, interface)	1601-0047
EBI 20-TF-Set	Temperature logger set (logger with external probe up to +100 °C (+212 °F), evaluation software, interface)	1601-0011
EBI 20-TH1-Set	Temperature Humidity Logger Set (logger, evaluation software, interface)	1601-0048
EBI 20-IF	Interface for EBI 20	1601-0020
EBI 20-WM	EBI 20 wall bracket with padlock	1601-0030
EBI 20-WM-1	EBI 20 truck wall bracket	1601-0033