

EBI 40 Multi-Channel Temperature Data Logger

The EBI 40 Multi-Channel Temperature Data Logger records temperatures during process monitoring and validation. Current measurement values and the measurement curve can be read on the multi-colored TFT display. The thermal insulation using the thermo isolation box allows the use of the data logger at very high temperatures. The EBI 40 is suitable for the connection of up to six or twelve thermocouple probes.

Applications:

Monitoring and validation of processes in:

- Incubators
- Refrigerators
- Climate cabinets
- Storage rooms
- Transport studies
- Freeze-dryers etc.



EBI 40-TC Multi-Channel Data Logger for type K and T thermocouple sensors



EBI 40-TC-01

EBI 40-TC-02

Technical Data

Measurement range	-200 °C ... +1,200 °C (-328 °F ... +2,192 °F)
Accuracy	±0.5 °C (at +25 °C)
Resolution	0.1 °C (0.2 °F)
Channels	6 or 12 temperature channels
Sampling rate	Adjustable from 0.1 sec to 24 hours
Sensor	Thermocouple Type K or Type T / SMP connection
Operating temperature	0 °C ... +60 °C (0 °F ... +140 °F)
Storage temperature	0 °C ... +70 °C (+32 °F ... +158 °F)
Memory	20,000 measurements per channel (max. 240,000 measurements)
Measurement mode	<ul style="list-style-type: none"> • Endless measurement immediately • Measure immediately until end of memory • Start / stop measurement
Display	TFT-display 3.5" (324 x 240 pixels)
Dimensions (L x W x H)	140 x 118 x 35 mm
Housing material	ABS + PC
Protection class	IP40
Certificate	Factory calibration certificate (-100 °C, 0 °C and +1,000 °C)"

The accuracy of the used probe adds to the accuracy of the device. E.g. probes with class 1 of DIN EN 60584 have ± 0,5 °C between -40 °C ... +125 °C.

Please find various thermocouple probes starting from page 74.

Type	Description	Part No.
EBI 40-TC-01	6-channel data logger (without probes)	1340-6400A
EBI 40-TC-02	12-channel data logger (without probes)	1340-6401A

Accessories for EBI 40



AN 141 Adapter cable, 1 m silicone (SMP/Lemo size 0)



AN 142 Extension cable, 1 m silicone, SMP
AN 144 Extension cable, 2.5 m, silicone, SMP



Wall mount **EBI 40-WH** Bracket for 35 mm cap rail

Similar to photo

EBI TIB 400-01 Thermal Isolation Box for EBI 40 Sturdy thermal barrier (stainless steel and ceramic)

- Heat resistant insulation
- Replaceable sealing and cooling element
- Easy to transport
- Protects EBI 40 for 2 hours at +250°C (+482 °F)
- Dimensions (with folded handles): 247 x 210 x 131 mm

Type	Description	Part No.
AN 141	Adapter cable, 1 m silicone SMP/Lemo size 0	1341-2629
AN 142	Extension cable, 1 m silicone, SMP	1343-2626
AN 144	Extension cable, 2.5 m silicone, SMP	1343-2627
EBI TIB 400-01	Thermal Isolation Box for EBI 40	1340-6430
EBI 40-WH	EBI 40 wall mount	1340-6431