

EBI 16 Electronic Bowie Dick Test System

Together with the evaluation software Winlog.med the new EBI 16 data logger forms an easy to use and very reliable electronic measurement system. With it a comprehensive routine control of steam sterilizers can be performed using an Electronic Bowie Dick Test according to EN ISO 11140-4. In addition to the review of the steam penetration, the relevant sterilization parameters are controlled.

Bowie Dick Test

The EBI 16 delivers clear results during daily checks of the air evacuation test and steam penetration test according to ISO 17665, EN ISO 11140-4 and DIN EN 285.

Early warning system

The EBI 16 provides early identification of possible failures in steam-sterilizers. Even the smallest quantities of residual air that doesn't lead to a failed Bowie Dick Test yet are detected.

Vacuum check

The EBI 16 allows a reasonable vacuum check also for sterilizers without pressure display according to DIN EN 285.

Verification of sterilization parameters

The EBI 16 checks the sterilization parameters such as compensation time, hold time, sterilization temperature and sterilization time at +134 °C (+273 °F) for 3 minutes according to DIN EN 285.

Calculation of lethality (F_0)

The EBI 16 monitors deviations between cycles by calculating total quantity of energy expended during sterilization process which is displayed by the F_0 value.



EBI 16 Bowie Dick Test Data Logger according to the norms EN 285 / ISO 17665



- **Reliable:** clear, reproducible measurement results
- **Accurate:** high-resolution graphical cycle display
- **Secure:** digital data recording and storage
- **Easy:** to use and evaluate

Technical Data

Temperature measurement range	0 °C ... +150 °C (+32 °F ... +302 °F)
Temperature accuracy	± 0.1 °C
Temperature resolution	0.025 °C
Pressure measurement range	0 mbar ... 4000 mbar abs.
Pressure accuracy	± 15 mbar
Pressure resolution	1 mbar
Operating temperature	0 °C ... +150 °C
Temperature sensor	Pt 1000 (2 channels)
Pressure sensor	Piezo-resistive (1 channel)
Measurement mode	<ul style="list-style-type: none"> • Endless • Start / stop measurement • Measurement from start time • Start immediately until end of memory
Sampling rate	1 sec ... 24 h
Memory	27.000 measurements
Protection class	IP 68
Battery	Lithium, user replaceable
Dimensions (Ø x h)	90 mm x 150 mm
Housing material	Stainless steel (V4A), PEEK
Weight	Approximately 500 g (including battery)
Certificate	Factory calibration certificate

Type	Description	Part No.
EBI 16	Electronic Bowie and Dick Test	1340-6197

EBI 16 Bowie and Dick Test Sets

With the EBI 16 starter sets you can start your Electronic Bowie Dick Test immediately according to the norms EN 285/ISO 17665.

Please find complete routine control sets on page 43.

SL 1520 set contains:

- Bowie Dick Test EBI 16
- Winlog.med software
- EBI IF 150 Interface
- Aluminium carrying case



SL 1520 set
for steam sterilizers



SL 1620 set
for steam sterilizers, washer-disinfectors and washer-disinfectors for endoscopes

SL 1620 set contains:

- Bowie Dick Test EBI 16
- EBI 100-T100 temperature data logger (see p. 38)
- Winlog.med software
- EBI IF 150 interface
- Aluminium carrying case

Type	Description	Part No.
SL 1520 set	EBI 16 set for steam sterilizers	1340-6198
SL 1620 set	EBI 16 set for steam sterilizers and washer-disinfectors	1340-6573