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MEASUREMENTS FOR LIFE



EBI 15

Electronic Bowie Dick Test and Batch Control PCD

Security during Routine Checks



Routine Checks in the CSSD simply done ... with **Set SL 1500**



The set contains:

- 1 x Bowie Dick logger EBI 15**
- 1 x Interface IF 150 suitable for EBI 15 and EBI 10**
- 1 x Antenna AL 111**
- 1 x Software Winlog.med**
- 1 x Alu carrying case**

Additionally required for routine checks of washer-disinfectors:

- 1 x Temperature logger EBI 10-T100**

Description	Type	Part No.
Starter-Kit	SL 1500	1340-6195
Temperature logger	EBI 10-T100	1340-6100

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More Security during Routine Checks of Steam Sterilizers ...



... BY VERIFICATION OF STERILIZATION PARAMETERS

Checks sterilization temperature and sterilization time at +134°C (273°F) for 3.5 minutes according to DIN EN 285

... BY MEANS OF DATA LOGGING

Stores up to 100,000 measured values with measuring rate adjustable from 250 ms; graphic presentation of pressure / temperature / time response

... VIA DATA RECORDING WITH SOFTWARE Winlog.med

- Support at routine check preparation / planning as well as at programming, evaluation, calibration and report generation
- Integrated help function provides fast problem presentation of various errors and offers solutions for error correction

... WITH CALCULATION OF THEORETICAL STEAM TEMPERATURE

Detects over-heated steam inside sterilization chambers by comparing theoretical temperature with actually measured steam temperature

... BY MEANS OF EARLY-WARNING SYSTEM

Early identification of possible failures in steam sterilizer. Even smallest quantities of residual air (that do not yet lead to a failed Bowie Dick Test) are detected

... VIA BOWIE DICK TEST

Definite result „passed/failed“ at daily check of air evacuation test and steam penetration test according to DIN EN 285 and EN ISO 11140-4

... WITH CALCULATION OF LETHALITY (F_0)

Monitors deviations between cycles by calculating total quantity of energy expended during sterilization process; this is expressed by F_0 value

... VIA VACUUM CHECK

Reasonable vacuum check for sterilizers without pressure display according to DIN EN 285

... BY VERIFICATION OF CALIBRATION

Fast, easy and simultaneous verification of calibration of measuring instruments/displays during verification of equipment check

Advantages at a glance:

- > Exact and independent measurement of sterilizer performance
- > Definite result
«passed / failed»
- > 500 cycles
- > After service/calibration re-useable
- > Electronic data logging

Technical Data

Type	EBI 15
Measuring range	Temperature: 0°C ... +150°C (32°F ... 302°F) Pressure: 0 mbar ... 4000 mbar
Accuracy	±0.1°C (±0.2°F) ±15 mbar (±1.5 kPa)
Auflösung	0.025°C (0.045°F) 1 mbar (100 Pa)
Operating temperature	0°C ... +150°C (32°F ... 302°F)
Sensor	Temp.: Pt 1000, Piezo-resistive pressure sensor
Channels	2 temperature, 1 pressure
Measurement mode	· endless mode · start / stop time · measurement upon start time · start immediately until memory full
Measuring rate	adjustable from 250 ms to 24 h (Depending on measured values or time measuring rate can be modified while recording)
Memory	100,000 measured values
Communication	wireless 2.4 GHz / IEEE 802.15.4
Battery	3.6 V, exchangeable by user
Housing material	Stainless steel (V4A), PEEK, PPSU, Aluminium
Dimensions	Ø 90 mm x H = 186 mm
Protection class	IP 68
Calibration certificate	according to ISO 9001/2000

**Approved by an independent testing laboratory
according to EN ISO 11140-4**