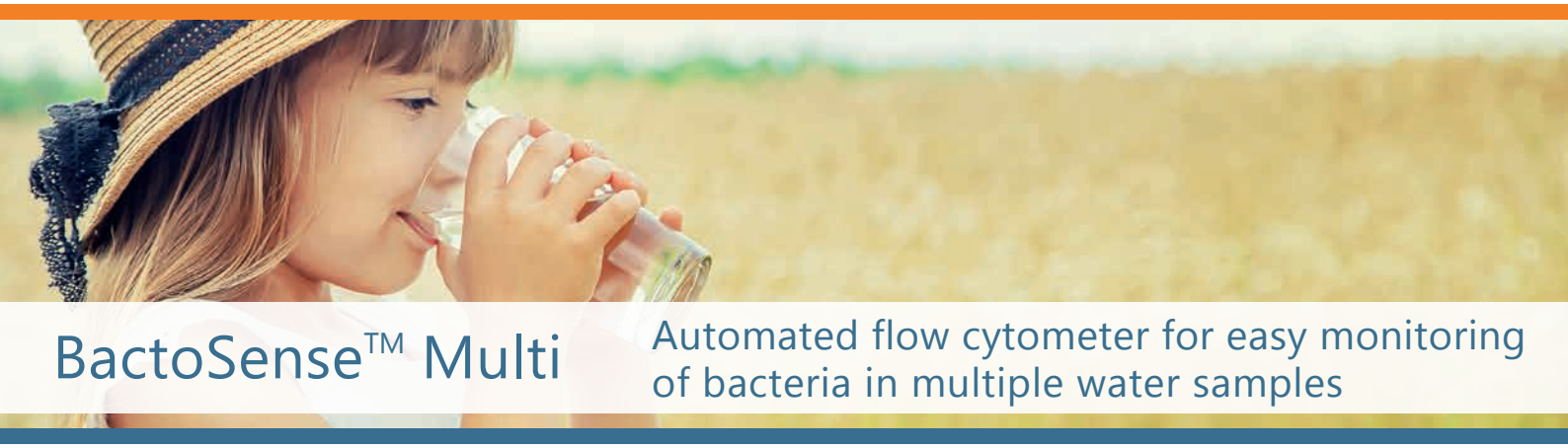


BactoSense™ Multi

Automated flow cytometer for easy monitoring of bacteria in multiple water samples

Autonomous Processes up to 30 samples automatically, while thermally stabilized

Safe Minimized handling of chemicals, all reagents are sealed in a recyclable cartridge

Accurate Flow cytometry technology allows precise detection of more than 99.9% of microbial cells

Fast Results available within 25 minutes, analyses up to 36 samples in 24h

Reliable Self-check routines, factory calibration and low maintenance

Easy to use Fully automated sample preparation, batch measurements and cleaning – can be used by anyone

Cost saving Reduces the required number of plating tests (HPC) for a minimal total cost of ownership

Universal For process monitoring, lab analysis, manual or batch processing – provides TCC, ICC, HNAC/P, and LNAC

Compact Built for process and industrial operations

Integrated Choice of multiple data interfaces: USB, Ethernet, FTP

Main applications

Microbiological assessment of your production and processes.

- Allows a complete mapping of your system
- Enables monitoring of multiple sampling points
- Simultaneous disinfection control
- Filtration efficiency
- Synchronized validation of the distribution network

Industries

- Water treatment & distribution
- Food & beverage
- Laboratories & universities

Parameters provided

TCC	Total Cell Count
ICC	Intact Cell Count
HNAC	High Nucleic Acid Count
LNAC	Low Nucleic Acid Count
HNAP	High Nucleic Acid Percentage

Specifications

Measuring principle	Flow cytometry
Light source	Laser diode 488 nm
Optical detection	Fluorescence: 535/43 (FL1), 715 LP (FL2), Side scatter 488/10 (SSC)
Lower size detection limit	0.1 µm
Measuring range	1'000 - 2 Million cells/ml
Detection limit	100 - 5 Million cells/ml
Accuracy	< 5 % relative
Measuring interval	40 minutes
Microbial parameters	TCC/ml, ICC/ml, LNA/ml, HNA/ml, HNAP(%)

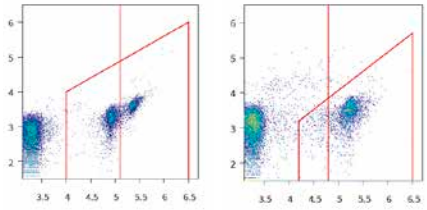
Sampling	Autoloading station
Sample volume	1162 µl sampled, 90 µl for analysis
quantity	1 - 30 samples
cooling	min. 4°C, max. room temp. minus 3°C
Requirements	
chlorine concentration	max. 3 mg/l
turbidity	max. 10 FTU
pH range	5 - 12
temperature range	5..40°C
conductivity	max. 100'000 µs/cm at 20°C

Instrument	Factory calibrated
Display	Touchscreen
Data storage	32 GB
Dimensions (WxDxH)	700 × 757 × 373 mm
Weight	35.5 kg
Power supply	100 - 240 VAC, 50/60 Hz, 1.4 A, 2 sockets
Power consumption	20 + 160 W
Ambient temperature	5..30°C
Relative humidity	10 - 90% RH
Cartridge	Hermetically sealed enclosure for reagents, cleaning liquids and waste
Cartridge capacity	Max. 500 measurements, 9 months validity

Interfaces	Digital
Digital interfaces	Sealed USB, Ethernet connection, FTP

Accessories	
TCC Refill	Filling and servicing of cartridge - to measure Total Cell Count of up to 500 samples
ICC Refill	Filling and servicing of cartridge - to measure Intact Cell Count of up to 500 samples
Cleaning kit	Deep cleaning of all internal micro-fluidic components
Validation kit	Easy way to check your instrument after transport or long period out of use
Screw cap vials	10 ml, box of 100 vials with septum
Barcode Reader	Eliminates input errors, reads 1D-, 2D- and QR codes

BactoSense Multi with cooling capabilities



Dotplots showing TCC and ICC

ICC or TCC cartridge

Sample tray containing up to 30 vials

Validation & Cleaning kits

30201-02-EN

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