

# BactoSense Quick Guide

This Quick Guide helps you get started with BactoSense, your solution for the automated measurement of the concentration of microorganisms in water.

## Before getting started



### Follow the user manual instructions

- Read the user manual before installing or operating the instrument.
- Pay particular attention to the safety information in the safety chapter and throughout the manual.
- Make sure you always have access to the user manual.
- Find the latest version of the instrument and accessory user manuals at:



[www.bnovate.com/docs](http://www.bnovate.com/docs)



### Verify the operating conditions

- Temperature 5–30 °C (41–86 °F)
- Humidity 10–90 % RH
- Indoor use, max. 2000 m (6600 ft) above sea level



### Verify the sample conditions

- In auto mode with the online sampling device at the inlet: flow rate 200–400 mL/min (0.05–0.10 gal/min), pressure max. 0.5 bar (7.3 psi)
- Temperature 5–40 °C (41–104 °F)
- Turbidity 0–10 FTU, 0–10 FNU
- Conductivity 0–100,000 µS/cm at 20 °C
- Chlorine max. 3 mg/L, iron max. 200 µg/L, manganese max. 50 µg/L
- pH 5–12

## Measuring in auto mode



To measure automatically and in predefined intervals from a connected water source:

- Make sure the correct online sampling device is installed and the sample conditions are met.
- In the *Home menu* of the BactoSense user interface, press *Auto mode* and *Start*.
- On the time series graph view, press *Start*.
- Select the *Online Sampling Device (with Backflush)* protocol and configure the measurement series.
- Follow the instructions on the screen to start measuring.

## Measuring in manual mode



To measure individual grab samples collected in sample tubes:

- Make sure the manual sampling device is installed correctly.
- In the *Home menu* of the BactoSense user interface, press *Manual mode* and *Start*.
- Select the *Water analysis* protocol and configure the measurement.
- Attach a 5-mL sample tube containing a 2–5 mL water sample to the sampling device.
- Follow the instructions on the screen to start the measurement.

## Reviewing results

- In the *Home menu* of the BactoSense user interface, press *Results (Manual)* or *Results (Auto)* and select the desired measurement.

## Handling cartridges



The *Cartridge* contains all the reagents needed for measurements and self-cleaning.

- Icons in the top bar of the user interface indicate the filling level of a *Cartridge*.



- Find the expiration date and storage conditions on the cartridge or in the user interface under *System Info*.
- Arrange a *Cartridge* refill once the cartridge level is low or the cartridge is about to expire.
- To install, remove or exchange a *Cartridge*, press on *Maintenance* → *Cartridge change* on the BactoSense user interface and follow the instructions on the screen.

## Relocating or storing your BactoSense



Careful decommissioning, transport, storage, and recommissioning is essential. Consult the user manual for this.

## Qualification

BactoSense is calibration free.

For operating environments requiring system suitability testing, use the *System Suitability Test Kit* (SST Kit).

For other environments, an instrument qualification using the *Validation kit* is recommended in the following situations:

- After shipping the instrument or other long-distance transport, exposing the instrument to vibration or shock.
- After storing the instrument for more than one month.
- If there are indications that measurement results could be erroneous.

## Keeping your BactoSense clean



The *Wash Station* keeps the manual sampling device clean.

Use the *Wash Station*:

- Before switching BactoSense off.
- After measuring a highly concentrated sample.
- If the instrument will be idle for more than six hours.
- If the manual sampling device has been newly installed.



The *Cleaning Kit* is used to clear biological and non-biological contaminations.

Use the *Cleaning Kit*:

- When facing persistent contamination.
- If the needle of the manual sampling device has visible deposits.
- After stopping in an error state with a loaded sample.
- If *High baseline* or *Air bubble detection* warnings frequently appear.

## Interpreting user interface icons



The last measurement triggered an alarm.



Maintenance is required. Arrange a maintenance visit.



No cartridge or not initialised correctly. Install the cartridge with on-screen instructions.



Critical error. Resolve the issue and then manually clear the error in the error log.

## Contact us

bNovate customer service: [support@bnovate.com](mailto:support@bnovate.com) or your local customer service partner.