# BactoSense Quick Guide User Manual

## English

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https://manual.bnovate.net/other-manuals/quick-guide

# 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 BactoSense user manual before installing or operating the instrument. Pay particular attention to the safety chapter and the safety information throughout the manual. Make sure you always have access to the user manual. Find the latest instrument and accessory manuals at www.bnovate.com/docs.

### Operating conditions

| Parameter | Range |
|---|---|
| Temperature | 5–30 °C (41–86 °F) |
| Humidity | 10–90 % RH |
| Location | Indoor use, maximum 2000 m (6600 ft) above sea level |

### Sample conditions

| Parameter | Range |
|---|---|
| Auto mode, at the online sampling device inlet | Flow rate 200–400 mL/min (0.05–0.10 gal/min); pressure maximum 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 | Maximum 3 mg/L |
| Iron | Maximum 200 µg/L |
| Manganese | Maximum 50 µg/L |
| pH | 5–12 |

## Measuring in auto mode

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

1. Make sure the correct online sampling device is installed and the sample conditions are met.
2. In the **Home** menu, press **Auto mode** and **Start**.
3. On the time series graph view, press **Start**.
4. Select **Online Sampling Device (with Backflush)** and configure the measurement series.

5. Follow the on-screen instructions to start measuring.

## Measuring in manual mode

To measure individual grab samples collected in sample tubes:

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

## Reviewing results

In the **Home** menu, 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 indicate the filling level of a cartridge.
- Find the expiration date and storage conditions on the cartridge or under **System Info**.
- Arrange a cartridge refill once the level is low or the cartridge is about to expire.
- To install, remove or exchange a cartridge, press **Maintenance → Cartridge change** and follow the on-screen instructions.

## Relocating or storing your BactoSense

Careful decommissioning, transport, storage and recommissioning are essential. Consult Storage, transport and disposal.

## 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:

- After shipping 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 it:

- 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 clears biological and non-biological contaminations. Use it:

- 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

| Icon | Meaning and action |
|---|---|
|  | The last measurement triggered an alarm. |
|  | Maintenance is required. Arrange a maintenance visit. |
|  | No cartridge, or cartridge not initialised correctly. Install the cartridge with the on-screen instructions. |
|  | Resolve the issue, then manually clear the error in the error log. |

## Contact

Contact bNovate customer service at support@bnovate.com or your local customer service partner.