

# HAFFMANS BTM BOTTLE MONITOR

## GENERAL PRODUCT INFORMATION

Evaluating the cleaning of returnable bottles in breweries and soft drink production plants is an important aspect of quality assurance before filling. There is a significant risk that bottles might be contaminated by foreign substances. Bottle washing is therefore an essential process in the packaging line.

The Bottle Monitor, type BTM, monitors the bottle washing process and measures both temperature and conductivity as a function of time.

The BTM travels among the other bottles through the bottle washer and evaluates its performance. After the process is finished, an LED on the bottom of the monitor indicates whether the cleaning process met the requirements programmed in the BTM. The measured data can be transferred to a PC via a docking station. The software processes the measured value and displays it in tabular and graphical formats, which can be printed and/or stored.

## CUSTOMER BENEFITS

- **Perfect process control**
- **Cost saving**
  - **information about condition of bottle cleaner**
  - **optimization of energy and caustic consumption**



## APPLICATIONS

- **Bottle Washer**

# HAFFMANS BTM

## BOTTLE MONITOR

### TECHNICAL DATA

#### Measuring range

Temperature	0 - 85 °C
Conductivity	0 - 300 mS/cm*

#### Accuracy

Temperature	± 0.5 °C
Conductivity	0.5 mS/cm + 2% of m.v.

#### Recording interval

1 sec.

#### Storage capacity

1 recording of max. 90 min.

#### Bottle

Bottle size	NRW 0.5 l/EURO 0.5 l/ 0.33 longneck**
Battery	Lithium 3.6 V
Weight	approx. 600 g

#### Dock station

Voltage	100 - 240 V AC-50/60 Hz
Interface	RS-232
Dimensions	32 x 120 x 170 (HxWxD mm)
Weight	750 g

\* Compensated for 20 °C or 25 °C

\*\* Other sizes on request

### SCOPE OF SUPPLY

- Bottle
- Dock station with charger and mains cable (Euro, US, UK or AUS plug)
- Service set
- Software set (CD + Interface)
- Instruction manual

### OPTIONS

- Certificate of measurement



#### HAFFMANS B.V.

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