

# Liquid Analysis

## Physical Medium Properties

### Liquitrend QMW43

Compact device for continuous buildup thickness and conductivity measurement



#### Benefits:

- Reliable, repeatable and accurate measurement of buildup thickness and conductivity regardless of media type
- Conductive as well as capacitive measuring cycles, the device automatically detects the most accurate measuring mode and uses it automatically
- Verification of cleaning status without the need to open the tank
- Compact and flush-mounted stainless-steel sensor offers the perfect insight into the conditions in pipelines or tanks at all critical locations
- Plug and Play - simple commissioning without presettings
- Hygienic safety by Design and material traceability are a matter of course
- Integrated digital communication option via IO-Link

More information and current pricing:

[www.jp.endress.com/QMW43](http://www.jp.endress.com/QMW43)

#### Specs at a glance

- **Measurement range** Conductivity: 0  $\mu\text{S}/\text{cm}$ ...100  $\text{mS}/\text{cm}$  Build-up thickness: 0 mm...10 mm
- **Process temperature**  $-20^{\circ}\text{C}$ ... $+100^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$ ... $+212^{\circ}\text{F}$ )  $+150^{\circ}\text{C}$  ( $+302^{\circ}\text{F}$ ) for 1h
- **Process pressure** Vacuum...25 bar (Vacuum...362.5 psi)
- **Measuring method** Capacitive- conductive

**Field of application:** The Liquitrend QMW43 is developed for the food and beverage industry to help customers to ensure product safety, improve quality and increase the availability of installations. Base your decisions on the unique and reliable measurement of buildup thickness

and conductivity via the combination of conductive and capacitive measuring modes.

## Features and specifications

### Physical medium properties

**Measuring principle**

Medium consistency

**Measuring method**

Capacitive- conductive

**Application**

Continuous inline measurement of build-up and liquid conductivity

**Supply voltage**

10...30 VDC

IO-Link: 18...30 VDC

**Measurement range**

Conductivity:

0  $\mu$ S/ cm...100 mS/ cm

Build-up thickness:

0 mm...10 mm

**Accuracy**

Build-up:

$\leq 1\%$  of measuring range

Conductivity:

0...2 mS/ cm:  $\leq 5\%$  of reading

2...20 mS/ cm:  $\leq 7\%$  of reading

20...50 mS/ cm:  $\leq 10\%$  of reading

50...100 mS/ cm:  $\leq 15\%$  of reading

**Ambient temperature**

-40°C...+70°C (-40°F...+158°F)

**Physical medium properties****Process temperature**

-20°C...+100°C  
(-4°F...+212°F)  
+150°C (+302°F) for 1h

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**Process pressure**

Vacuum...25 bar  
(Vacuum...362.5 psi)

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**Output / communication**

4...20 mA  
Frequency  
IO-Link

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**Connection**

Threads G1", G3/4", M24,  
Tri-Clamp ISO2852, DIN11851

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**Ex certification**

No Ex certificates  
CSA C/US General Purpose

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**Additional certifications**

EN10204- 3.1  
EHEDG  
3-A  
EG1935/2004  
CRN approval

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**Options**

Customer specific configuration  
Cleaned from oil and grease  
Surface roughness test  
Welding- and process adapters

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