

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.be.endress.com/QMW43

Specs at a glance

- **Measurement range** Conductivity: 0 $\mu\text{S}/\text{cm}$...100 mS/cm Build-up thickness: 0 mm...10 mm
- **Process temperature** -20°C ... $+100^{\circ}\text{C}$ (-4°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 μ 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

Process pressure

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

Output / communication

4...20 mA
Frequency
IO-Link

Connection

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

Ex certification

No Ex certificates
CSA C/US General Purpose

Additional certifications

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

Options

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

More information www.be.endress.com/QMW43