

## Fermentation Monitor QWX43

Measures continuously all parameters relevant for the fermentation process. For transparency in fermentation processes, for example in beer.



### Benefits:

- No on-site presence required
- Precise and repeatable measurements replace spindling and laboratory analysis
- Minute-by-minute update of the crucial process parameters, the results can be retrieved at any time and from anywhere
- Data-driven process improvements through comparison of values from past batches and automatic notifications
- Automatic creation, saving and downloading of batches and values
- Hygienic design enables tank-integrated cleaning

More information and current pricing:

[www.cz.endress.com/QWX43](http://www.cz.endress.com/QWX43)

**Field of application:** The Fermentation Monitor QWX43 is installed directly in the tank. It measures density, temperature, and acoustic velocity and calculates all relevant fermentation parameters, such as degree of fermentation, residual extract, and alcohol content. The multi-sensor system provides precise and repeatable measurements in real time. Thanks to Endress+Hauser's Netilion app, users can track their fermentation processes via any internet enabled device.

[Click here to learn more.](#)

### Features and specifications

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**Physical medium properties****Measuring principle**Medium consistency

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**Measuring method**Continuous measurement of density, viscosity, ultrasonic velocity, temperature and all fermentation parameters

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**Application**Easy and convenient inline fermentation monitoring with a cloud-connected multiparameter device

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**Supply voltage**

24 V DC

10...30 V DC

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**Measurement range**

Measured values:

Viscosity: 0 to 1000 mPa s

Density: 0.3 to 2.0 g/cm<sup>3</sup>

Temperature: -5°C to 95°C (+23°F to +203°F)

Sound velocity: 800 to 2200 m/s

Calculated values:

Extract: up to 20° Plato

Alcohol: up to 15 % vol alcohol

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**Accuracy**

Measured errors:

Viscosity: 0.02 mPas

Density: 0.0001 g/cm<sup>3</sup>

Temperature: 0.08 °C

Sound velocity: 0.23 m/s

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**Ambient temperature**-20°C...+60°C (-4°F...+140°F)

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**Process temperature**

-10°C...+110°C

(-14°F...+230°F)

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Physical medium properties

**Process pressure**

Vacuum...16 bar  
(Vacuum...232,1 psi)

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**Output / communication**

WLAN Webserver integrated  
Digital ENDRESS + HAUSER Cloud Services

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**Connection**

Tri-Clamp ISO2852, DIN11851  
DRD, Varivent N

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**Ex certification**

No Ex certificates

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**Additional certifications**

EHEDG and 3-A conform constructed  
EG1935/2004

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**Options**

Tube extension  
5 m cable  
Plug connector M12

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