

CERTIFICATE OF CONFORMITY

1. ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS

2. **Certificate No:** FM23NCA0011
3. **Equipment:** QWX43 Fermentation Monitor
(Type Reference and Name)
4. **Name of Listing Company:** Endress+Hauser SE+Co KG
5. **Address of Listing Company:** Hauptstrasse 1, Maulburg D79689, Germany
6. The examination and test results are recorded in confidential report number:
PR467089 dated 12 October 2023
7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:
CSA C22.2 No. 94.2:2020, CSA C22.2 No. 60529:R2021, CSA C22.2 No. 61010-1:2019
8. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.
9. **Equipment Ratings:**
Type 4X; IP66/67
10. **Description of Equipment:**
The Fermentation Monitor QWX43 is a measuring device for monitoring temperature, density, viscosity and sound velocity. It is specifically intended for monitoring the concentration of sugar, alcohol and the brewing process during the fermentation of beer, for example.

The measurement method is based on a combination of the vibronic principle with an integrated temperature measurement and a sound velocity measurement using ultrasound. The compact device is installed directly in the tank and is powered by a separate supply voltage. The IP66/67 protected housing contains a web server via which the sensor measured values are sent, depending on the version, either to the Netilion Server platform or to a wireless access point.

Certificate issued by:



J.E. Marquedant
VP, Manager - Electrical Systems

12 October 2023

Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC, 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
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SCHEDULE

to Canadian Certificate Of Conformity No: FM23NCA0011



Operation Temperature Ranges:

The ambient operating temperature range of the Fermentation Monitor QWX43 is -20°C to +60°C. Process temperature range is -10°C to 110°C.

Electrical data:

The Fermentation Monitor QWX43 has the following electrical ratings:

Supply voltage: Recommended supply voltage: 24 V DC

Permitted supply voltage: 20 to 35 V DC

The power unit must provide safe electrical separation and be tested to ensure it meets safety requirements (e.g., PELV, SELV, Class 2).

Power consumption: 2.4 W

Current consumption: 100 mA at 24 V DC

11. Specific Conditions of Use:

The power unit must provide safe electrical separation and be tested to ensure it meets safety requirements (e.g., PELV, SELV, Class 2).

12. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals Canadian Certification Requirements.

13. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

14. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
12 October 2023	Original Issue.

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