

# CERTIFICATE OF CONFORMITY



Member of the FM Global Group

## 1. HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS

2. **Certificate No:** FM21US0087X
3. **Equipment:** HMT370EX Series  
(Type Reference and Name) Humidity and Temperature Transmitter
4. **Name of Listing Company:** Vaisala Oyj
5. **Address of Listing Company:** Box 26, FIN-00421 Helsinki, Finland

6. The examination and test results are recorded in confidential report number:

PR460030 dated 10<sup>th</sup> December 2021

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM 3600:2022, FM 3610:2021, FM 3810:2021, ANSI/UL 60079-0:2020, ANSI/UL 60079-11:2018,  
ANSI/IEC 60529:2004, ANSI/UL 61010-1:2012

8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

9. 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.

10. **Equipment Ratings:**

Intrinsically Safe for:

Class I, II, III Division 1, Groups A, B, C, D, E, F and G, T4

Class I, Zone 0, AEx ia IIC T4

Zone 20, AEx ia IIIC Temperature Code T85°C

Ta: -40°C to +60°C;

IP54 (transmitter alone), IP66 (transmitter with the probe body attached)

**Certificate issued by:**

J.E. Marquedant  
VP, Manager - Electrical Systems

14 February 2024

Date

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

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

FM Approvals LLC. One Technology Way, Norwood, MA 02062 USA

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F 347 (Apr 21)



## SCHEDULE

US Certificate Of Conformity No: FM21US0087X



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11. The marking of the equipment shall include:

IS Class I, II, III, Division 1, Groups A, B, C, D, E, F, G; T4,  $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ ; Entity Class I, Zone 0, AEx ia IIC T4 Ga  $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ ; Entity Zone 20, AEx ia IIIC T85°C Da  $T_a: -40^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ ; Entity  
Install per M212732EN

12. Description of Equipment:

**General** - Vaisala Intrinsically Safe Humidity and Temperature Transmitter HMT370EX Series is a current loop (4...20 mA) powered intrinsically safe humidity and temperature transmitter intended to be used in areas containing explosive gas or dust atmospheres. Equipment consists of the HMT370EX transmitter and HMP370EX probe. The HMT370EX consist of three main parts: the transmitter body, a detachable probe body and a probe head attached to the probe body, either directly or with a cable.

**Construction** - Transmitter and probe bodies are aluminum with 20  $\mu\text{m}$  thick anodizing. The Transmitter enclosure Type of Protection is IP54, or IP66 with the probe body attached. On the transmitter without display there is a LED light guide on the cover of the enclosure. There is a small hole sealed with a gore vent on the back of the transmitter enclosure. There are Multimeter test points for both analog output channels and a Service port for PC connection, inside the Transmitter body which must only be use in a safe area with the Vaisala accessory PC connection cable.

A series of probes (HMP370EX) are available in the HMT370EX series. They all have the same probe body, but different probe head. The differences between the probes are process interface, temperature range and pressure range. Probe heads come with three different cable lengths.

The probe can only be used together with the transmitter body in explosive atmospheres. In safe area, transmitter and probe can be used with Vaisala USB-cable connected to a PC. The enclosure is provided with two (2) M20 x 1.5 openings.

**Ratings** - The Humidity and Temperature Transmitter HMT370EX Series operate at 28 Vdc. The transmitters are rated for use in an ambient temperature range of  $-40^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ . The transmitter probes are rated for use in a process temperature range of  $-40^{\circ}\text{C}$  to  $+180^{\circ}\text{C}$ .

### **HMT370EX123456789101112. Transmitter and Probe or Transmitter only**

Entity Parameters:

| Terminals     | $V_{Max}$ (V) | $I_{Max}$ (mA) | $P_{Max}$ (W) | $C_i$ (nF) | $L_i$ ( $\mu\text{H}$ ) |
|---------------|---------------|----------------|---------------|------------|-------------------------|
| Ch 1: + and - | 28            | 100            | 0.7           | 12.1       | 16                      |
| Ch 2: + and - | 28            | 100            | 0.7           | 12.1       | 16                      |

1 = Probe model: 0, 1, 3, 4, 5, 7, 8, F, H

2 = Ex Certification, Region and Product Markings: 5

3 = Probe Cable Length and Sensor:

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

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F 347 (Apr 21)



## SCHEDULE

US Certificate Of Conformity No: FM21US0087X



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0, A, B, C, D, E, F, G, H, J, K, L, M, N, P, R, S, T, U, V, W, Y, Z, 1, 2, 3, 4, 5, 6, 7

4 = Sensor Protection: 0, 1, 2, 3, 4, 5

5 = Probe Accessories: N, B, C, D, E, F, G, H, J, K, L, M

6 = Transmitter type: A, B

7 = Output Units: 1, 2, J

8 = Analog Outputs (Channel1): J, L, N, A, B, C, D, E, H, M, P, R, S, X

9 = Analog Outputs (Channel2): J, L, N, A, B, C, D, E, H, M, P, R, S, X

10 = Cable Lead-through: 0, 1, 2, 3, 4, 5, 6, 7, 8

11 = Transmitter Accessories: N, A, B, C, D, E, F, G

12 = Reserved: N, R, F

Two transmitter body types are available in HMT370EX series:

| Model Code option 6 - Transmitter type | Model Explanation  | Tamb range     | Temperature class |
|--|--|----------------|-------------------|
| A                                      | Transmitter without Display and Keypad. Red and Green LED indicator. | -40°C to +60°C | T4                |
| B                                      | Transmitter with Display and 4 button keypad                         | -40°C to +60°C | T4                |

The available probe models are listed below:

| Model Code option 1 – Probe model | Model  | Explanation            | Cable length (m) | Ambient temperature range | Probe head temperature   | Probe head temp. | Probe head pressure range (MPa) |
|-----------------------------------|--------|------------------------|------------------|---------------------------|--|------------------|---------------------------------|
| 1                                 | HMP371 | for wall mounting      | No Cable         | -40°C to +60°C            | -40°C to +60°C   | T4               |                                 |
| 3                                 | HMP373 | for confined spaces    | 2, 5 & 10        | -40°C to +60°C            | -40°C to +55°C<br>-40°C to +100°C<br>-40°C to +120°C             | T6<br>T5<br>T4   |                                 |
| 4                                 | HMP374 | for pressurized spaces | 2, 5 & 10        | -40°C to +60°C            | -70°C to +55°C<br>-70°C to +100°C<br>-70°C to +135°C<br>-70°C to |                  |                                 |

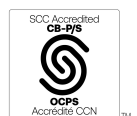
To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

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F 347 (Apr 21)



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|          |         |                           |           |                |   |                      |        |
|----------|---------|---------------------------|-----------|----------------|---|----------------------|--------|
|          |         |                           |           |                | +180°C  | T6<br>T5<br>T4<br>T3 | 0 to10 |
| <b>5</b> | HMP375  | for high temperatures     | 2, 5 & 10 | -40°C to +60°C | -70°C to +55°C<br>-70°C to +100°C<br>-70°C to +135°C<br>-70°C to +180°C | T6<br>T5<br>T4<br>T3 |        |
| <b>7</b> | HMP377  | for high humidities       | 2, 5 & 10 | -40°C to +60°C | -70°C to +55°C<br>-70°C to +100°C<br>-70°C to +135°C<br>-70°C to +180°C | T6<br>T5<br>T4<br>T3 | 0 to1  |
| <b>8</b> | HMP378  | for pressurized pipelines | 2, 5 & 10 | -40°C to +60°C | -70°C to +55°C<br>-70°C to +100°C<br>-70°C to +135°C<br>-70°C to +180°C | T6<br>T5<br>T4<br>T3 | 0 to 4 |
| <b>F</b> | HMP378F | for moisture in oil       | 2, 5 & 10 | -40°C to +60°C | -70°C to +55°C<br>-70°C to +100°C<br>-70°C to +135°C<br>-70°C to +180°C | T6<br>T5<br>T4<br>T3 | 0 to 4 |

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F 347 (Apr 21)



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|   |         |                      |           |                |   |                      |        |
|---|---------|----------------------|-----------|----------------|---|----------------------|--------|
| H | HMP378H | for moisture in fuel | 2, 5 & 10 | -40°C to +60°C | -70°C to +55°C<br>-70°C to +100°C<br>-70°C to +135°C<br>-70°C to +180°C | T6<br>T5<br>T4<br>T3 | 0 to 4 |
|---|---------|----------------------|-----------|----------------|---|----------------------|--------|

### 13. Specific Conditions of Use:

1. Potential risk of sparking from aluminum alloy enclosure. The equipment shall be installed in such manner as to prevent the possibility of sparks resulting from friction or impact against the enclosure.
2. The cable glands and blanking elements used with the transmitter shall conform to requirements of ANSI/UL 60079-0

### 14. Test and Assessment Procedure and Conditions:

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

### 15. Schedule Drawings

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

### 16. Certificate History

Details of the supplements to this certificate are described below:

| Date             | Description   |
|------------------|---|
| 10 December 2021 | Original Issue.   |
| 28 February 2022 | Supplement 1:<br>Report Reference: – RR231482 dated 28 <sup>th</sup> February 2022.<br>Description of the Change: Certificate Model string options updated. FM3600 updated from 2018 to 2022.   |
| 14 February 2024 | Supplement 2:<br>Report Reference: PR467609 dated 14 February 2024.<br>Description of the Change(s): (1) New ink material was added for the glass window. (2) The IP rating was modified. It remains at IP54 for the transmitter alone, but is IP66 with the probe body attached. |

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F 347 (Apr 21)



Page 5 of 5



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# CERTIFICATE OF CONFORMITY

## 1. HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS

2. **Certificate No:** FM23CA0076X
3. **Equipment:** HMT370EX Series  
(Type Reference and Name) Humidity and Temperature Transmitter
4. **Name of Listing Company:** Vaisala Oyj
5. **Address of Listing Company:** Box 26, FIN-00421 Helsinki, Finland

6. The examination and test results are recorded in confidential report number:

PR467609 dated 14 February 2024

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. 60079-0:2019, CSA C22.2 No. 60079-11:2014, CSA C22.2 No. 60529:2005,  
CSA C22.2 No. 61010-1:2012

8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

9. 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.

10. Equipment Ratings:

Intrinsically Safe for:

Class I, II, III Division 1, Groups A, B, C, D, E, F and G, T4

Class I, Zone 0, Ex ia IIC T4

Zone 20, Ex ia IIIC Temperature Code T85°C

Ta: -40°C to +60°C;

IP54 (transmitter alone), IP66 (transmitter with the probe body attached)

**Certificate issued by:**

J.E. Marquedant  
VP, Manager - Electrical Systems

14 February 2024

Date

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

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F 348 (Apr 21)



## SCHEDULE

Canadian Certificate Of Conformity No: FM23CA0076X



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11. The marking of the equipment shall include:

IS Class I, II, III, Division 1, Groups A, B, C, D, E, F, G; T4,  $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ ; Entity  
Class I, Zone 0, Ex ia IIC T4 Ga  $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ ; Entity  
Zone 20, Ex ia IIC T85°C Da Ta:  $-40^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ ; Entity

### 12. Description of Equipment:

**General** - Vaisala Intrinsically Safe Humidity and Temperature Transmitter HMT370EX Series is a current loop (4...20 mA) powered intrinsically safe humidity and temperature transmitter intended to be used in areas containing explosive gas or dust atmospheres. Equipment consists of the HMT370EX transmitter and HMP370EX probe. The HMT370EX consist of three main parts: the transmitter body, a detachable probe body and a probe head attached to the probe body, either directly or with a cable.

**Construction** - Transmitter and probe bodies are aluminum with 20  $\mu\text{m}$  thick anodizing. The Transmitter enclosure Type of Protection is IP54, or IP66 with the probe body attached. On the transmitter without display there is a LED light guide on the cover of the enclosure. There is a small hole sealed with a gore vent on the back of the transmitter enclosure. There are Multimeter test points for both analog output channels and a Service port for PC connection, inside the Transmitter body which must only be use in a safe area with the Vaisala accessory PC connection cable.

A series of probes (HMP370EX) are available in the HMT370EX series. They all have the same probe body, but different probe head. The differences between the probes are process interface, temperature range and pressure range. Probe heads come with three different cable lengths.

The probe can only be used together with the transmitter body in explosive atmospheres. In safe area, transmitter and probe can be used with Vaisala USB-cable connected to a PC. The enclosure is provided with two (2) M20 x 1.5 openings.

**Ratings** - The Humidity and Temperature Transmitter HMT370EX Series operate at 28 Vdc. The transmitters are rated for use in an ambient temperature range of  $-40^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ . The transmitter probes are rated for use in a process temperature range of  $-40^{\circ}\text{C}$  to  $+180^{\circ}\text{C}$ .

#### **HMT370EX123456789101112. Transmitter and Probe or Transmitter only**

Entity Parameters:

| Terminals     | $V_{Max}$ (V) | $I_{Max}$ (mA) | $P_{Max}$ (W) | $C_i$ (nF) | $L_i$ ( $\mu\text{H}$ ) |
|---------------|---------------|----------------|---------------|------------|-------------------------|
| Ch 1: + and - | 28            | 100            | 0.7           | 12.1       | 16                      |
| Ch 2: + and - | 28            | 100            | 0.7           | 12.1       | 16                      |

1 = Probe model: 0, 1, 3, 4, 5, 7, 8, F, H

2 = Ex Certification, Region and Product Markings: 5

3 = Probe Cable Length and Sensor:

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

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F 348 (Apr 21)



Page 2 of 5

## SCHEDULE

Canadian Certificate Of Conformity No: FM23CA0076X



0, A, B, C, D, E, F, G, H, J, K, L, M, N, P, R, S, T, U, V, W, Y, Z, 1, 2, 3, 4, 5, 6, 7

4 = Sensor Protection: 0, 1, 2, 3, 4, 5

5 = Probe Accessories: N, B, C, D, E, F, G, H, J, K, L, M

6 = Transmitter type: A, B

7 = Output Units: 1, 2, J

8 = Analog Outputs (Channel1): J, L, N, A, B, C, D, E, H, M, P, R, S, X

9 = Analog Outputs (Channel2): J, L, N, A, B, C, D, E, H, M, P, R, S, X

10 = Cable Lead-through: 0, 1, 2, 3, 4, 5, 6, 7, 8

11 = Transmitter Accessories: N, A, B, C, D, E, F, G

12 = Reserved: N, R, F

Two transmitter body types are available in HMT370EX series:

| Model Code option 6 - Transmitter type | Model Explanation  | Tamb range     | Temperature class |
|--|--|----------------|-------------------|
| A                                      | Transmitter without Display and Keypad. Red and Green LED indicator. | -40°C to +60°C | T4                |
| B                                      | Transmitter with Display and 4 button keypad                         | -40°C to +60°C | T4                |

The available probe models are listed below:

| Model Code option 1 – Probe model | Model  | Explanation            | Cable length (m) | Ambient temperature range | Probe head temperature  | Probe head temp.     | Probe head pressure range (MPa) |
|-----------------------------------|--------|------------------------|------------------|---------------------------|---|----------------------|---------------------------------|
| 1                                 | HMP371 | for wall mounting      | No Cable         | -40°C to +60°C            | -40°C to +60°C  | T4                   |                                 |
| 3                                 | HMP373 | for confined spaces    | 2, 5 & 10        | -40°C to +60°C            | -40°C to +55°C<br>-40°C to +100°C<br>-40°C to +120°C                    | T6<br>T5<br>T4       |                                 |
| 4                                 | HMP374 | for pressurized spaces | 2, 5 & 10        | -40°C to +60°C            | -70°C to +55°C<br>-70°C to +100°C<br>-70°C to +135°C<br>-70°C to +180°C | T6<br>T5<br>T4<br>T3 | 0 to 10                         |

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F 348 (Apr 21)





## SCHEDULE

Canadian Certificate Of Conformity No: FM23CA0076X



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|          |         |                           |           |                |   |                      |        |
|----------|---------|---------------------------|-----------|----------------|---|----------------------|--------|
| <b>5</b> | HMP375  | for high temperatures     | 2, 5 & 10 | -40°C to +60°C | -70°C to +55°C<br>-70°C to +100°C<br>-70°C to +135°C<br>-70°C to +180°C | T6<br>T5<br>T4<br>T3 |        |
| <b>7</b> | HMP377  | for high humidities       | 2, 5 & 10 | -40°C to +60°C | -70°C to +55°C<br>-70°C to +100°C<br>-70°C to +135°C<br>-70°C to +180°C | T6<br>T5<br>T4<br>T3 | 0 to 1 |
| <b>8</b> | HMP378  | for pressurized pipelines | 2, 5 & 10 | -40°C to +60°C | -70°C to +55°C<br>-70°C to +100°C<br>-70°C to +135°C<br>-70°C to +180°C | T6<br>T5<br>T4<br>T3 | 0 to 4 |
| <b>F</b> | HMP378F | for moisture in oil       | 2, 5 & 10 | -40°C to +60°C | -70°C to +55°C<br>-70°C to +100°C<br>-70°C to +135°C<br>-70°C to +180°C | T6<br>T5<br>T4<br>T3 | 0 to 4 |
| <b>H</b> | HMP378H | for moisture in fuel      | 2, 5 & 10 | -40°C to +60°C | -70°C to +55°C<br>-70°C to +100°C<br>-70°C to +135°C<br>-70°C to +180°C | T6<br>T5<br>T4<br>T3 | 0 to 4 |

**13. Specific Conditions of Use:**

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F 348 (Apr 21)



## **SCHEDULE**

Canadian Certificate Of Conformity No: FM23CA0076X



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1. *Potential risk of sparking from aluminum alloy enclosure. The equipment shall be installed in such manner as to prevent the possibility of sparks resulting from friction or impact against the enclosure.*
2. *The cable glands and blanking elements used with the transmitter shall conform to requirements of CAN/CSA-C22.2 No. 60079-0.*

#### **14. Test and Assessment Procedure and Conditions:**

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

#### **15. Schedule Drawings**

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

#### **16. Certificate History**

Details of the supplements to this certificate are described below:

| <b>Date</b>      | <b>Description</b> |
|------------------|--------------------|
| 14 February 2024 | Original Issue.    |

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

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