

1. **EC-TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective Systems Intended for use in
Potentially explosive atmospheres
Directive 94/9/EC**

3. Reference: **VTT 09 ATEX 028X**

4. Equipment: **Humidity and temperature transmitter**

Certified types: **HMT360**

5. Manufactured by: **Vaisala Oyj**

6. Address: **Vanha Nurmijärventie 21
FI-01670 Vantaa
Finland**

7. This equipment and any acceptable variations thereto are specified in the schedule and possible supplement(s) to this certificate and the documents therein referred to.

8. VTT, Technical Research Centre of Finland, notified body number 0537, in accordance with Article 9 of the Council Directive 94/9/EC of March 1994, certifies that the assembly has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

9. The examination and test results are recorded in confidential Report no VTT-S-03434-09.

10. Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0 (2006)
EN 60079-11 (2007)
EN 60079-26 (2007)**



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11. If the sign "X" is placed after the certificate number, it indicates that these equipment is subject to special conditions for safe use specified in the schedule to this Certificate
 12. This EC-Type examination certificate relates only to the design, examination and tests of the specified equipment in accordance to the directive 94/9/EC.

Further requirements of the Directive may apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
 13. The marking of the equipment shall include the following:

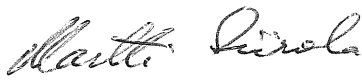


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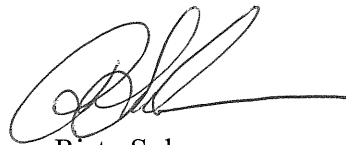
Ex ia IIC T4

Espoo, 11.6.2009

VTT , Technical Research Centre of Finland



Martti Siirola
Research scientist



Risto Sulonen
Senior research scientist

14. **Schedule**15. **EC-TYPE EXAMINATION CERTIFICATE NO. VTT 09 ATEX 028X**16. Description of equipment

The humidity and temperature transmitter, type HMT 360, for the measurement of temperature and humidity with the following associated sensor heads:

- HMP361 wall-mounting probe
- HMP362 probe can be used in conjunction with sampling cells
- HMP363 probe for restricted space
- HMP364 probe for low and high pressure
- HMP365 probe for elevated temperature
- HMP367 probe for high moisture applications
- HMP368 probe for pressure pipes or liquids

Electrical data (maximum values per channel):

- $U_i = 28 \text{ V}$
- $I_i = 100 \text{ mA}$
- $P_i = 700 \text{ mW}$
- $C_i = 1 \text{ nF}$
- L_i negligibly low

17. Report No. VTT-S-03434-0918. Special conditions for safe use

- 1) The equipment with display window and/or with associated cable of the sensor head can be used in Zone 0 Group IIC areas only if the danger of ignition due to electrostatic charge is avoided.
- 2) With the installation of the equipment in Zone 0 Group II area it has to be ensured that sparks due impact or friction do not occur.
- 3) The serial interface must only be used outside the explosion hazardous area. The associated serial interface cable 25905ZZ is to be used

19. Essential Health and Safety Requirements

Met by compliance with the standards listed on the front page.

Espoo, 11.6.2009

VTT, Technical Research Centre of Finland



Martti Siirola
Research scientist



Risto Sulonen
Senior research scientist