



# DET NORSKE VERITAS

## TYPE APPROVAL CERTIFICATE

**CERTIFICATE NO. A-11440**  
This Certificate consists of 3 pages

*This is to certify that the*  
**Misc. detector**  
*with type designation(s)*  
**MMT330;HMT330;DMT340;PTU300**

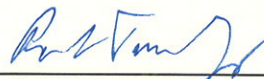
*Manufactured by*  
**Vaisala Oyj**  
**HELSINKI, Finland**

*is found to comply with*  
Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and  
Det Norske Veritas' Offshore Standards

### *Application*

Type	MMT330, HMT330, DMT340, PTU300
Temperature	B
Humidity	B
Vibration	A
EMC	B
Enclosure	B/IP65

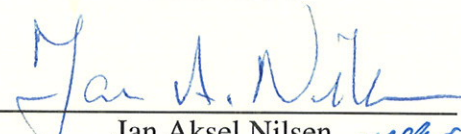
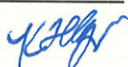
*Place and date*  
Høvik, 2009-09-08  
for DET NORSKE VERITAS AS

  
v.p. Odd Magne Nesvåg  
Head of Section



*Local Office*  
DNV Helsinki

*This Certificate is valid until*  
2013-12-31

  
Jan Aksel Nilsen  
Surveyor 

**Notice: This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.**

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Cert. No.: A-11440  
File No.: 891.90  
Job Id no.: 262.1-007527-1

## Product description

The following types are covered by this approval:

- MMT330 Moisture and Temperature transmitter for oil
- HMT330 Humidity and temperature transmitter
- DMT340 Dewpoint transmitter
- PTU300 Combined pressure, humidity and temperature transmitter

## Application/Limitation

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV Rules for Ships Pt.4 Ch.9 Control and Monitoring Systems.

Type Approval of sensor is only valid for units with a valid calibration certificate.

## Type Approval documentation

Data sheet: B210768EN  
Documents: MMT330 Manual, M210733EN-D  
HMT330 Manual, M210566EN-F  
DMT340 Manual, M210704EN-D  
PTU300 M210796EN-C  
Test report: T08-609A-ENVI, Environmental Test Report, dated 2008-08-05  
T08-609A-EMC, EMC Test Report, dated 2008-07-29  
VVT-S-05582-08, Vibration Tests, dated 2008-06-24  
TUO26-044494, Thightness Tests, dated 2004-07-14

## Tests carried out

Applicable tests according to Standard for Certification No. 2.4, April 2006.



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### Certificate retention survey

The scope of the retention/renewal survey is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the survey are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Retention survey is to be performed at least every second year and at renewal of this certificate.

END OF CERTIFICATE