Certificate no.:
TAA00003KF

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Bridge instrumentation

with type designation(s)
WM80 Ultrasonic Wind Sensor

issued to
Vaisala Oyj
Vantaa, **Finland**

is found to comply with
DNV rules for classification – Ships, offshore units, and high speed and light craft

Application:

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Temperature	**D**
Humidity	**B**
Vibration	**C**
EMC	**B**
Enclosure	**C**

Issued at **Høvik** on **2025-04-07**
This Certificate is valid until **2030-04-06**.
DNV local unit: **Finland CMC**

for **DNV**

Approval Engineer: **Tommi Juhani Rifaat**

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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

WM80 is an ultrasonic wind sensor measuring wind speed and wind direction.

Measurement range: up to 90 m/s

See datasheet B212484EN, setup guide M212994EN and user guide M212995EN for more information.

Application/Limitation

- Installation to be performed according to manufacturer's documentation.

Type Approval documentation

DNV No	Drw No	Rev	Title
34	TR223327	A	Report: Vaisala, WM80 DIN ISO 11997-1 Cycle B Cyclic Corrosion Test Report
33	TR223325	A	Report: Vaisala, WM80 IEC 60068-2-6 Vibration Test Report
32	10987/2024	Rev01	Report: Fraunhofer, WM80 IEC 60529 IPX6 Test Report
31	REP063805	2024-12-13	Report: Nemko, WM80 IEC 60529 IP Test Report
30	TR223275	A	Report: Vaisala, WM80 IEC 60068-2-2 Dry Heat (Operative) Test Report
29	TR223273	A	Report: Vaisala, WM80 IEC 60068-2-78 Damp Heat, Steady State (Operative) Test Report
28	TR223272	A	Report: Vaisala, WM80 IEC 60068-2-30 Damp Heat, Cyclic (Operative) Test Report
27	TR223271	A	Report: Vaisala, WM80 IEC 60068-2-14 Change of Temperature (Operative) Test Report
26	TR223270	A	Report: Vaisala, WM80 IEC 60068-2-1 Cold (Operative) Test Report
25	TR223268	A	Report: Vaisala, WM80 IEC 60068-2-6 Vibration, Sinusoidal (Operative) Test Report
24	TR223267	A	Report: Vaisala, WM80 IEC 60068-2-1 Cold (Storage) Test Report
23	TR223265	A	Report: Vaisala, WM80 IEC 60068-2-2 Dry Heat (Storage) Test Report
22	M212995EN	A	Manual: Vaisala, WM80 User Guide
21	M212994EN	B	Manual: Vaisala, WM80 Setup Guide
20	B212484EN	E	Doc: Vaisala, WM80 Data Sheet
7	TR223255	A	Report: Nemko, WM80 EMC Test Report
6	SCH211125	D3	Drawing: Vaisala, WM80 Measurement Board Circuit Diagram
5	SCH211102	H2	Drawing: Vaisala, WM80 Top heater board Circuit Diagram
4	SCH211101	D4	Drawing: Vaisala, WM80 Base Board Circuit Diagram
3	DRW258748	K	Drawing: Vaisala, WM80 Piezo base
2	DRW257740	K.1	Drawing: Vaisala, WM80 Bottom cover
1	DRW257737	K	Drawing: Vaisala, WM80 Lid

Tests carried out

- Environmental testing: IEC 60945 (2002) (incl. IEC 60945 Corr. 1:2008),
- Environmental testing: DNV-CG-0339 (2021)

Marking of product

The Manufacturer and Type Designation to be applied to the equipment in a clearly visible location and in addition the equipment shall be marked with serial number and supply voltage.

Periodical assessment

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.
The scope of the periodical/renewal assessment is to verify that the production quality conditions stipulated for the type approval are complied with and that no alterations are made to the product design or its components and/or materials without appraisal by the Society.

This certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in https://approvalfinder.dnv.com