



# NIPPON KAIJI KYOKAI

## TYPE APPROVAL CERTIFICATE FOR CRANKCASE OIL MIST DETECTION ARRANGEMENTS

Certificate No. TA24436M


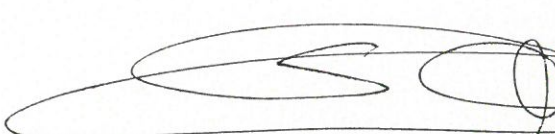
**This is to certify** that the undernoted products have been approved in accordance with the requirements specified in Chapter 6, Part 7 of “Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use” and the relevant Society’s Rules.

This certificate is issued to

Manufacturer:	<b>Schaller Automation Industrielle Automationstechnik GmbH &amp; Co. KG</b>
Place of Manufacturing:	<b>D-66440 Blieskastel / Germany / Industriering 14</b>
Product description:	<b>Oil mist detection system</b>
Model:	<b>VISATRON VN2020 / VN2020EX</b>
Approval No.:	<b>19A024</b>
Valid until:	<b>4 August 2029</b>

The details are described in the attached sheet(s).

Issued at Tokyo on 2 August 2024.



S. Oishi  
General Manager  
Machinery Department

Note: The manufacturer, if desired, is requested to apply to the Society for renewal prior to the expiration date.

**NIPPON KAIJI KYOKAI**

Attached sheet -1/2 to the Certificate No. TA24436M

**Specification & documents:**

1. Particulars:

Power supply:	18 - 31.2V DC, max. 2A
Nominal voltage:	24V DC
Enclosure:	IP 54
For VN2020EX:	II(2G) [Ex op is IIB T4 Gb] $+5^{\circ}\text{C} \leq \text{Ta} \leq 70^{\circ}\text{C}$
Software:	V2.03 (Version No. as of the date of issuance)

2. Measuring range & Default alarm setting: 0.5 - 2.5mg/liter & 1.2mg/liter

3. Documentation and Test Reports:

Operation Manual\_Rev.3.0 (January 2024),

Circuit diagram No.1000194\_05, 1000196\_04c, 1000198\_04, 260064,

Release Notes Firmware FB\_8.2\_027\_V02\_Release\_Notes (April 2024),

Witness test report FB\_7.1\_012\_V03 under IACS members (May 2019),

Photographic records,

Test report CTC advanced GmbH : No.1-7830/19-01-04 (February 2019),

Test report CTC advanced GmbH : No.1-7830/19-01-05 (March 2019),

IECEX Certificate of Conformity: Certificate No. IECEX IBE 19.0010 (July 2019),

EU-Type Examination Certificate: No.IBExU19ATEX1048 (April 2019)

- To be continued -

NIPPON KAIJI KYOKAI

Attached sheet -2/2 to the Certificate No. TA24436M

**Test items & approval conditions:**

1. Test items: Applied testing items are marked with X in accordance with the Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use as amended by IACS UR M67.Rev2 and UR E10.Rev8 as applicable.

ENVIRONMENTAL TESTS		Mark
External examination		X
Operation test and performance test		X
Electric power supply failure test		X
Power supply fluctuation test	Electric	X
	Pneumatic and Hydraulic	--
Insulation resistance test		X
High voltage test		X
Pressure test (Pneumatic and Hydraulic)		--
Dry heat test (Temperature 70°C × 16 hours)		X
Damp heat test		X
Vibration test (Acceleration ±4g × 1.5 hours)		X
Inclination test		X
Cold test (Temperature 5°C × 16 hours)		X
Salt mist test		--
Electrostatic discharge immunity test		X
Radiated radio frequency immunity test		X
Conducted low frequency immunity test		X
Conducted high frequency immunity test		X
Burst / Fast transient immunity test		X
Surge immunity test		X
Radiated emission test		X
Conducted emission test		X
Flame retardant test		--

2. Approval conditions:

- 1) The product is not allowed to be installed in the bridge and on open decks.
- 2) Where there are multi engine installations, each engine is to be provided with oil mist detection / monitoring and a dedicated alarm.

- The End -