



## **Type Examination Certificate**

for Electrical Equipment used in Potentially Explosive Atmosphere

Issued by Eurofins E&E CML Limited,	Newport Business Park, New Port Road, Ellesmere Port CH65 4LZ, UK					
Applicant	Vaisala Oyj Vanha Nurmijarventie 21, FI-01670 VANTAA, Finland					
Manufacturer name	Vaisala Oyj Vanha Nurmijarventie 21, FI-01670 VANTAA, Finland					
Product name	Humidity and Temperature Transmitter					
Type/model code	HMT370EX					
Type of protection	Intrinsic Safety					
Group, Temperature Class and EPL	IIC, T4, Ga IIIC, T <sub>200</sub> 85°C, Da					
The equipment shall be marked with the following	Ex ia IIC T4 Ga Ex ia IIIC T <sub>200</sub> 85°C Da					
Ratings	See Attachment 1					
Special condition for safe use	See Attachment 2					
Certificate number	CML 21JPN2417X					
Term of validity	From 18-05-2021 to 17-05-2024					

This is to certify that the equipment specified above complies with the requirements stipulated in Ordinance on Examination of Machines and Other Equipment of the Ministry of Health, Labour and Welfare, Japan.

Issue date: 20-01-2022

Signature of chief examiner:

1 blaling





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## **Attachment 1 - Ratings**

Ambient: -40°C ≤ Tamb ≤ +60°C

Input values of 4...20 mA loops (ch. 1 and 2):

• Ui = 28 Vdc

li = 100 mA

• Pi = 700 mW

Ci = 12.1 nF

• Li = 16 μH

## **Probe Models:**

Model	Explanation	Cable lengths	Ambient temperature	Probe head	Probe head	Probe head
			range for probe body	temperature	temp. class	pressure range
1	for wall mounting	No Cable	-40°C to +60°C	-40°C.to +60°C	T4	
3	for confined spaces	2, 5 and 10 m	-40°C to +60°C	-40°C.to +55°C	T6	
				-40°C.to +100°C	T5	
				-40°C.to +120°C	T4	
4	for pressurized spaces	2, 5 and 10 m	-40°C to +60°C	-70 °C to +55°C	T6	0 to 10 MPa
				-70 °C to +100°C	T5	-
				-70 °C to +135°C	T4	
				-70 °C to +180°C	T3	
5	for high temperatures	2, 5 and 10 m	-40°C to +60°C	-70 °C to +55°C	Т6	
				-70 °C to +100°C	T5	
				-70 °C to +135°C	T4	
				-70 °C to +180°C	T3	
7	for high humidities	2, 5 and 10 m	-40°C to +60°C	-70 °C to +55°C	T6	0 to 1 MPa
				-70 °C to +100°C	T5	
				-70 °C to +135°C	T4	
				-70 °C to +180°C	T3	
8	for pressurized pipelines	2, 5 and 10 m	-40°C to +60°C	-70 °C to +55°C	T6	0 to 4 MPa
				-70 °C to +100°C	T5	
				-70 °C to +135°C	T4	
				-70 °C to +180°C	T3	
F	for moisture in oil	2, 5 and 10 m	-40°C to +60°C	-70 °C to +55°C	Т6	0 to 4 MPa
				-70 °C to +100°C	T5	
				-70 °C to +135°C	T4	
				-70 °C to +180°C	T3	
Н	for moisture in fuel	2, 5 and 10 m	-40°C to +60°C	-70 °C to +55°C	T6	0 to 4 MPa
				-70 °C to +100°C	T5	
				-70 °C to +135°C	T4	
				-70 °C to +180°C	T3	





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## Attachment 2 - Special Conditions for Safe Use

- i. For EPL Ga Group II ensure that sparks due to impact or friction do not occur.
- ii. In explosive atmospheres the probe must be used together with the transmitter body only. In safe area, transmitter and probe can be used with Vaisala USB-cable connected to a PC.
- iii. Cables suitable for +80°C should be used.