



# Certificate of Compliance

**Certificate:** 80083181

**Master Contract:** 213862

**Project:** 80083181

**Date Issued:** 2022-05-20

**Issued To:** Vaisala Oyj  
PO Box 26  
Helsinki, Uusimaa, 00421  
Finland

**Attention:** J-P Mörsky

*The products listed below are eligible to bear the CSA Mark shown*



**Issued by:** *Anil Sodhi*  
Anil Sodhi

## PRODUCTS

**CLASS 2258 03** - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non Incendive Systems - For Hazardous Locations

**Ex ia IIC T4 Ga ;**

**Ex ia IIIC T85°C Da ;**

**IS Class I, Division 1, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III T4**

HMT370EX series is a humidity and temperature transmitter with 2-wire, 4...20mA current loop analog output. It consists of three main parts: the transmitter housing, a detachable probe body and probe head type HMP370EX series. The transmitter is available either with LCD Display or LED indicator option.

The device is Intrinsically safe when powered according to the input entity parameters given below and wired as per drawing M212788EN.

$U_i / V_{max} = 28 \text{ Vdc}$

$I_i / I_{max} = 100 \text{ mA}$

$P_i / P_{max} = 700 \text{ mW}$

$C_i = 12.1 \text{ nF}$

$L_i = 16 \text{ }\mu\text{H}$

$-40 \text{ }^\circ\text{C} \leq T_{amb} \leq +60 \text{ }^\circ\text{C}$

A series of probes (HMP370EX) are available in the HMT370EX series. They all have the same probe body, but different probe head. The difference between the various probe heads are process interface, temperature range and pressure range. Probe heads come with three different cable lengths. The available probe models are listed below:

Model HMP37x where "x"	Application	Cable length	Ambient temperature range (with T-class)		Probe head pressure range
			Probe body	Probe head	
1	for wall mounting	Compact version - no cable	-40 °C ... +60 °C (T4)	-40 °C ... +60 °C (T4)	n/a
3	for confined spaces	2, 5 and 10m		-40 °C ... +55 °C (T6) -40 °C ... +100 °C (T5) -40 °C ... +120 °C (T4)	n/a
4	for pressurized spaces			-70 °C ... +55 °C (T6) -70 °C ... +100 °C (T5) -70 °C ... +135 °C (T4) -70 °C ... +180 °C (T3)	0...10MPa
5	for high temperatures			-70 °C ... +55 °C (T6) -70 °C ... +100 °C (T5) -70 °C ... +135 °C (T4) -70 °C ... +180 °C (T3)	n/a
7	for high humidities			-70 °C ... +55 °C (T6) -70 °C ... +100 °C (T5) -70 °C ... +135 °C (T4) -70 °C ... +180 °C (T3)	0...1MPa
8	for pressurized pipelines			-70 °C ... +55 °C (T6) -70 °C ... +100 °C (T5) -70 °C ... +135 °C (T4) -70 °C ... +180 °C (T3)	0...4MPa
8F	for moisture in oil			-70 °C ... +55 °C (T6) -70 °C ... +100 °C (T5) -70 °C ... +135 °C (T4) -70 °C ... +180 °C (T3)	0...4MPa
8H	for moisture in fuel			-70 °C ... +55 °C (T6) -70 °C ... +100 °C (T5) -70 °C ... +135 °C (T4) -70 °C ... +180 °C (T3)	0...4MPa



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**Conditions of Acceptability:**

- For Specific Conditions of safe installation of the device, refer to the Installation and safety guide document for HMT370EX.
- HMT370EX is made from Aluminum. In rare cases, ignition sources due to impact and friction sparks could occur. This shall be considered during installation and use. Use care not to cause impacts or scrapes with other metal objects during installation.
- The transmitter enclosure openings are to be filled with cable gland and/or blanking element that shall conform to the requirements of CAN/CSA C22.2 No. 60079-0, to maintain the micro-environment situation of the transmitter.
- The service port on transmitter must only be used in a safe area.

**APPLICABLE REQUIREMENTS**

CAN/CSA C22.2 No. 61010-1-12, UPD1: 2015, UPD2: 2016, AMD1: 2018	Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements
CSA-C22.2 No. 60079-0:19	Explosive Atmospheres - Part 0: Equipment – General requirements
CAN/CSA-C22.2 No. 60079-11:14 (R2018)	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety “i”

**Notes:**

Products certified under Class C225803 have been certified under CSA’s ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). [www.scc.ca](http://www.scc.ca)





## *Supplement to Certificate of Compliance*

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*The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.*

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
80083181	2022-05-20	Original CSA certification of Intrinsically safe HMT370EX Humidity and Temperature Transmitter Series and HMP370EX series of probes applicable for different process interface, temperature range, and pressure range with three different cable lengths. This project is based on data acceptance of IECEx ExTR FI/EESF/ExTR20.0043/01 with intended marking Ex ia IIC T4 Ga and Ex ia IIIC T85°C Da and IS C1D1, CII and CIII Grp A-G T4.