1 # EC TYPE EXAMINATION CERTIFICATE

2 Equipment or Protected System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate No. **ATEX24XT115X**

4 Description of Equipment: **Air Flow Sensor GE-374-Ex**

5 Manufacture: **A.YITE TECHNOLOGY GROUP**

6 Address: **No.116, KWOK SHUI ROAD, Kwai Chung Industry Center, Hong Kong**

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

8 Hong Kong Quality Certificate Center, According with Article 17 of Directive 2014/34/EU of European Parliament and the Council, dated 26 February 2014, certifies that the above mentioned product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potential explosive atmospheres given in Annex II to the Directive

The examination and test results are recorded in confidential Report No. **HKQC-ATEX-2024885171**

9 Compliance with Essential Health and safety Requirements has been assured by compliance with:
EN 60079-0: 2012 + A11:2013 EN 60079-1: 2014 EN 60079-31: 2014

10 If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate

11 The EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system, These are not covered by this certificate.

12 The marking of the products shall include the following:

Ex II 2G Ex db IIC T6 Gb (-20℃≤Ta+80℃)

Ex II 2D Ex tb IIIC T85℃ Db (-20℃≤Ta+80℃) IP65

For and on behalf of

HONG KONG QUALITY CERTIFICATE CENTER

Signature: Helle Olsen

Verify Website: www.hkqc.org

Date: 17th,SEP,2024

13 **SCHEDULE**

14 **Certificate Number ATEX24XT115X**

15 **Description of Equipment or Protective System**

The GE-374-EX air flow sensor is a equipment for detecting the air flow velocity by a digital controller with Pitot Tube or a thermal platinum resistor.

The housing of air flow velocity sensor is made of aluminum alloy or stainless steel and is provided with top cover either blind or with tempered glass. The Pitot tube is made of stainless steel. There will be a soft tube to connect the pressure guage with the Pitot tube, the material could be rubber or stainless steel. The thermal type is connected with stainless steel tube, the thermal sensor will feel the air flow inside the pipe, transfer signal to the controller.

The enclosure can be equipped with different breathing or draining device made in 304/316 grade stainless steel or brass.

Part Number Options:

Code	Description
GE-374-EX	Explosion Proof Air Flow Sensor
*	Output signal MA=4-20mA V=0-5V RS=RS-485
**	Measure range, 10m means the measure range 0-10m/s; 30m means the measure range 0-30m/s
***	Pitot Tube type or Thermal type
****	Connection, F means DN15 flange type; Thread means G1/2" connection
*****	Other option

13 **SCHEDULE**

14 **Certificate Number ATEX24XT115X**

The unit is available with a flow range (10m/s to 70m/s), the voltage rating is 24Vdc, max power is 2.5W, frequency is 50/60Hz, IP degree of protection is IP65.

Temperature Class and Ambient Temperature:

Temperature Class		T_{amb}
Gas	Dust	
T6	T85 ℃	-20℃/+80℃

Ambient temperature range -20℃/+80℃ is based on the test results report n.2024885171
Ambient temperature range, depending on the options and the pressure instrument installed into the flameproof enclosure, is reported on the plate

16. **Report Number**
HKQC-ATEX-2024885171

17. **Specific Condition of Use**

In presence of explosive atmosphere raised by acetylene the breathing and draining devices or flame arrestor made in stainless steel must be used. Suitable cable glands and blanking elements in compliance with EN 60079-1 and EN 60079-31 must be used on cable entries.Thread engagement shall be at least five full thread for the installation of breathing and draining devices or flame arrester devices on the enclosure body.

In Presence of heavy conditions as high vibrations or high temperature (-10 ℃ /+140 ℃) the multifunctional grease Vanguard BSM/L is indicated for lubrication of thread joint.

The installation of the equipment shall be in compliance with EN 60079-14.
The electrical continuity between the enclosure and the structure on which the equipment is installed shall be verified.
All the inspection and maintenance operations of explosion-proof housing must be carried out in order to comply with to standard EN 60079-1

13 # SCHEDULE

14 **Certificate Number ATEX24XT115X**

18 Essential Health and Safety Requirements
Covered by standers in [9]

19 Reference Documents:

Technical documentation of reference for the EC type-examination certificate is listed below:

Document	Description	Date
TS-GE-374EX-ATEX-EN	Technical Note EC Type-examination	April 2024
ISSeP09ATEX046U	Certificate for empty flame-proof enclosure model GUB*S/W	10-09-2009
25690/1 Rev.E	Flame Arrestor and drain valve FT/VS 6190	09-06-2009
007260 Rev.E	Extension for GUB	08-02-2009
GE-374EX-ZZ001	Standards of Enterprise	05-09-2024
GE-374EX-SMS	User Manual	05-09-2024
GE-374EX-PT-F	Drawing of Flange Pitot tube	05-09-2024
GE-374EX-PT-T	Drawing of thread type Pitot tube	05-09-2024
GE-374EX-ZZT	Assembly drawing	05-09-2024
GE-374EX-SHL	Drawing of shell	05-09-2024
GE-374EX-YLT	Schematic diagram	05-09-2024
GE-374EX-MPT	Name plate drawing	05-09-2024
GE-374EX-PCB	Circuit diagram of PCB	05-09-2024
GE-374EX-LBJ	Parts drawing	05-09-2024

Copies of the above mentioned documents are kept at HKQC archive

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Date: 17th,SEP,2024