



## EC TYPE EXAMINATION CERTIFICATE

- 1
- 2 Equipment or Protected System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 3 Certificate No. **ATEX21XA1082X**
- 4 Description of Equipment: **Temperature Sensor GE-378**
- 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-2021XA1082X**
- 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:

 II 2G Ex db IIC T6 Gb ( $-20^{\circ}\text{C} \leq T_a + 80^{\circ}\text{C}$ )

 II 2D Ex tb IIIC T85°C Db ( $-20^{\circ}\text{C} \leq T_a + 80^{\circ}\text{C}$ ) IP65



For and on behalf of  
HONG KONG QUALITY CERTIFICATE CENTER

Signature: *Helle Olsen*

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Date: 15<sup>th</sup>, Jun, 2021





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## SCHEDULE

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15 **Description of Equipment or Protective System**

The GE-378 temperature sensor adopts thermocouple and thermal resistance as temperature measuring elements, and the output signal from the temperature measuring element is sent to the transmitter module. After circuit processing such as voltage regulation filtering, operational amplification, nonlinear correction, V/I conversion, constant current and reverse protection, it is converted into a 4~20mA current signal with a linear relationship with temperature. 0-5V/0-10V voltage signal, RS485 digital signal output.

Part Number Options:

Code	Description
GE-378	Explosion Proof temperature sensor
*	Output signal MA=4-20mA V=0-5V RS=RS-485
**	Measure range
***	Connection

Temperature Class and Ambient Temperature:

Temperature Class		$T_{amb}$
Gas	Dust	
T6	T8 C	
		-20°C/+80°C

Ambient temperature range -20 °C /+80 °C is based on the test results report n.2021XA1082X

Ambient temperature range, depending on the options and the instrument installed into the flameproof enclosure, is reported on the plate

16. **Report Number**

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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 arrestor devices on the enclosure body.

In Presence of heavy conditions as high vibrations or high temperature (-10°C/+140°C) 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 60079-17

18 **Essential Health and Safety Requirements**

Covered by standards in [9]

19 **Reference Documents:**

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

Document	Description	Date
TS-GE-378EX-ATEX-EN	Technical Note EC Type-examination	April 2021
ISSeP09ATEX046U	Certificate for empty flame-proof enclosure model GUB*S/W	10-09-2009



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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-378EX-ZZ001	Standards of Enterprise	04-15-2021
GE-378EX-SMS	User Manual	04-15-2021
GE-378EX-ZZT	Assembly drawing	04-12-2021
GE-378EX-SHL	Drawing of shell	04-12-2021
GE-378EX-YLT	Schematic diagram	04-12-2021
GE-378EX-MPT	Name plate drawing	04-12-2021
GE-378EX-PCB	Circuit diagram of PCB	04-12-2021
GE-378EX-LBJ	Parts drawing	04-12-2021

Copies of the above mentioned documents are kept at HKQC archive



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