



EC TYPE EXAMINATION CERTIFICATE

- 1
- 2 Equipment or Protected System Intended for use in Potentially Explosive
 Atmospheres Directive 2014/34/EU
- 3 Certificate No. **ATEX20XA073X**
- 4 Description of Equipment: **Flow Switches GE-341**
- 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-2020158211**
- 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°C ≤ Ta + 80°C)**

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



For and on behalf of
HONG KONG QUALITY CERTIFICATE CENTER

Signature: *Helle Olsen*

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15 **Description of Equipment or Protective System**

The GE-341-EX flow sensor is a equipment for detecting the water flow. The housing is made of aluminum alloy or stainless steel and is provided with top cover either blind or with tempered glass.

The switch body contains a reed switch, which are activated via a magnet operated lever assembly in the lower half of the switch body. The switch is secured into the vessel / pipework via a BSPT thread on the body section. 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-341	Explosion Proof Pressure Sensor
*	Connection size: DN25=G1" NPT=NPT1"
**	Other option

$U_i=30V$

$I_i=250mA$

$P_i=1.3W$

IP degree of protection is IP65.

Temperature Class and Ambient Temperature:

Ambient temperature range $-20^{\circ}C/+100^{\circ}C$ is required by the producer, based on the test results report n.2020158211. 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-2020158211



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17. **Specific Condition of Use**

1. External earth bonding of the stainless steel or brass enclosure may be achieved via the external mounting thread and/or the thread cable entry.

2. Metallic switches may pose an electrostatic risk if not earthed. This should be taken into account during installation.

The process medium must not exceed the ambient temperature range of the equipment

18 **Essential Health and Safety Requirements**

In addition to the Essential Health and safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
1.2.7	LVD type requirements
1.2.8	Overloading of equipment (protection relay, etc.)
1.4.1	External effects
1.4.2	Aggressive substances, ect

19 **Reference Documents:**

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

Document	Description	Date
TS-GE-341EX-ATEX-EN	Technical Note EC Type-examination	April 2020
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-341EX-ZZ001	Standards of Enterprise	04-15-2020
GE-341EX-SMS	User Manual	04-15-2020
GE-341EX-ZZT	Assembly drawing	04-12-2020
GE-341EX-SHL	Drawing of shell	04-12-2020
GE-341EX-YLT	Schematic diagram	04-12-2020
GE-341EX-MPT	Name plate drawing	04-12-2020
GE-341EX-PCB	Circuit diagram of PCB	04-12-2020
GE-341EX-LBJ	Parts drawing	04-12-2020

Copies of the above mentioned documents are kept at HKQC archive



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