

1 EU-TYPE EXAMINATION CERTIFICATE



2 Equipment or Protective systems intended for use in Potentially
Explosive Atmospheres - Directive 2014/34/EU

3 EU-Type Examination Certificate No: FM13ATEX0057X

4 Equipment or protective system:
(Type Reference and Name) FSV430 / 450 VortexMaster and FSS430 / 450
SwirlMaster

5 Name of Applicant: ABB Engineering (Shanghai) Ltd

6 Address of Applicant: No 4528, KangXin Highway,
KangQiao Town,
Pudong New District,
Shanghai. 201319
P.R. China

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 FM Approvals Europe Ltd, notified body number 2809 in accordance with Article 17 of Directive 2014/34/EU of 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report number:

3048489 dated 04th March 2014

9 Compliance with the Essential Health and Safety Requirements, with the exception of those identified in item 15 of the schedule to this certificate, has been assessed by compliance with the following documents:

EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-11:2012,
EN 60079-31:2014 and EN 60529:1991+A1:2000+A2:2013

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

11 This EU-Type Examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 2014/34/EU. 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 equipment or protective system shall include:



II 1/2 G Ex db ia IIC T6 Gb/Ga Ta = -40 °C to +75 °C

II 2 D Ex tb IIIC T85°C Db Ta = -40 °C to +75 °C

Damien McArdle
FM Approvals
Member of the FM Global Group

Digitally signed by Damien McArdle
DN: cn=Damien McArdle, o=FM
Approvals, ou=FM Approvals Europe
Ltd,
email=damien.mcardle@fmaproval
s.com, c=IE
Date: 2019.06.18 21:18:57 +01'00'

Damien McArdle
Certification Manager, FM Approvals Europe Ltd.

Issue date: 18th June 2019

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FM Approvals Europe Ltd. One Georges Quay Plaza, Dublin. Ireland. D02 E440
T: +353 (0) 1761 4200 E-mail: atex@fmaprovals.com www.fmaprovals.com

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13 Description of Equipment or Protective System:

The FSV430 / 450 VortexMaster and FSS430 / 450 SwirlMaster are used for measuring the flowrate of gasses, steam, and liquids. An option is available for direct temperature measurements. These temperature measurements can be used to monitor the fluid temperature or for the measurement is saturated steam in mass units. These products utilize piezo technology to measure flow.

The flow measuring system is designed as a 2-wire instrument with the supply power of $U \leq 42V_{dc}$ and the current output signal (4-20 mA) both use the same pair of connection leads. A separate contact output can be assigned for any one of the following functions: Pulse output, minimum or maximum alarm (temperature or flow rate) or system alarm. In addition to the HART communications configuration an optional Modbus, Fieldbus and Profibus communications option are available

The electronics enclosure is mounted directly to the flowmeter. This enclosure has a tool secured access door. The enclosure is an epoxy painted aluminium and has the ability for conduit connections. The converter can be mounted remotely from the flowmeter when it is installed in a location difficult to access or when the ambient conditions at the flowmeter are extreme. A special cable is utilized to interconnect the flowmeter and the converter. After the installation has been completed, the cable can be cut to the length required to reach the remote flowmeter.

The equipment enclosure has an ingress protection rating of IP66/67.

Operation Temperature Ranges:

The ambient operating temperature range of the FSS 430 and FSS 450 SwirlMaster or FSV 430 and FSV 450 VortexMaster Flow Meters is $-40^{\circ}C$ to $+75^{\circ}C$.
Process temperature range is $-200^{\circ}C$ to $+400^{\circ}C$.

Electrical data: $U \leq 42V_{dc}$ and the current output signal (4-20 mA)

$U_m = 45 V$

FSV430abcdefgh – Vortex Flow Transmitter – Integral Sensor

a = Explosion Protection Certification; A9 or B9.

b = System Design; C1 or C2.

c = Process Connection Type / Meter Size / Connection Size: W025R0, W040R0, W050R0, W080R0, W100R0, W150R0, F015R0, F015R2, F015R4, F025R0, F025R2, F025R3, F040R0, F040R1, F040R3, F050R0, F050R2, F050R3, F080R0, F080R1, F080R3, F100R0, F100R2, F100R4, F150R0, F150R2, F150R3, F200R0, F200R1, F200R2, F250R0, F250R1 or F300R0.

d = Pressure Rating; D1, D2, D3, D4, D5, D6, D7, E1, E2, E3, A1, A3, A6, A7, A8, A9, J0, J1, J2, J3 or J4.

e = Temperature Range of Measuring Medium; A1, B1 or C.

f = Housing Material / Cable Glands; A1, B1, S1, or T1.

g = Output Signal; F1, H1, H5, M4** or P1.

h = Additional Options; (Any of the following) C*, CG*, EG*, G1, G2, G4, L1, L2, M*, N*, P*, R5, RR S1, SD*, SM1, SM2, SM3, SM4, SM5, SM6, SM7, SM8, SP0, SP1, SP2, SP3, TC1, TCC, TCZ, TCS, TA4, TA5, U1, U2, NL*, NG* and/or NS*.

* = Any single character – Not relevant to safety.

** = For Ex db ia; Ex tb; versions only.

FSV430abcdefgh – Vortex Flow Transmitter – Remote Sensor

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d = Pressure Rating; D1, D2, D3, D4, D5, D6, D7, E1, E2, E3, A1, A3, A6, A7, A8, A9, J0, J1, J2, J3 or J4.

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f = Housing Material / Cable Glands; A1, B1, S1 or T1.

g = Output Signal; F1, H1, H5, M4** or P1.

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FSV450abcdefgh – Intelligent Vortex Flow Transmitter – Integral Sensor

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c = Process Connection Type / Meter Size / Connection Size; W025R0, W040R0, W050R0, W080R0, W100R0, W150R0, F015R0, F015R2, F015R4, F025R0, F025R2, F025R3, F040R0, F040R1, F040R3, F050R0, F050R2, F050R3, F080R0, F080R1, F080R3, F100R0, F100R2, F100R4, F150R0, F150R2, F150R3, F200R0, F200R1, F200R2, F250R0, F250R1 or F300R0.

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14 Specific Conditions of Use:

1. When the manufacturer of the equipment has not identified the type of protection on the label, the user shall, on installation, mark the label with the type of protection used.
2. Consult the manufacturer if dimensional information on the flameproof joints is necessary.
3. The painted surface of the FSS/FSV may store electrostatic charge and become a source of ignition in applications with a low relative humidity <~30% relative humidity where the painted surface is relatively free of surface contamination such as dirt, dust, or oil. Guidance on protection against the risk of ignition due to electrostatic discharge can be found in PD CLC/TR 60079-32-1 and IEC TS 60079-32-1. Cleaning of the painted surface should only be done with a damp cloth.
4. The probe for options f = A1 and B1 contains aluminium and is considered to present a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.

15 Essential Health and Safety Requirements:

The relevant EHSRs that have not been addressed by the standards listed in this certificate have been identified and assessed in the confidential report identified in item 8.

16 Test and Assessment Procedure and Conditions:

This EU-Type Examination Certificate is the result of testing of a sample of the product submitted, in accordance with the provisions of the relevant specific standard(s), and assessment of supporting documentation. It does not imply an assessment of the whole production.

Whilst this certificate may be used in support of a manufacturer's claim for CE Marking, FM Approvals Europe Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.

This Certificate has been issued in accordance with FM Approvals Europe Ltd's ATEX Certification Scheme.

17 Schedule Drawings

A list of the significant parts of the technical documentation is annexed to this certificate and a copy has been kept by the Notified Body.

Note – The attached list references the original project ID 3048130. The examination and test result recorded in confidential report number 3048489 dated 04th March 2014 were carried out as a supplement to original project ID 3048130.

18 Certificate History

Details of the supplements to this certificate are described below:

Date	Description
14 th March 2014	Original Issue.
13 th June 2014	<u>Supplement 1:</u> Report Reference: 3048130rev140506 dated 06 th June 2014. Description of the Change: Addition of alternate manufacturing location.

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Date	Description
13 th October 2015	<u>Supplement 2:</u> Report Reference: 3055129 dated 06 th October 2015 Description of the Change: 1. Update to the Applicant address 2. Addition of alternative HMI 3. Addition of Modbus communication option 4. Update to the Model code for the FSV/ FSS 430 and 450 SwirlMaster
06 th April 2016	<u>Supplement 3:</u> Report Reference: 3054654 dated 05 th April 2016 Description of the Change: 1. Addition of extended terminal housing. 2. Addition of enhanced EMC option. 3. Update to EN 60079-1:2015 and EN 60079-31:2014.
20 th February 2017	<u>Supplement 4:</u> Report Reference: 3057516 dated 19 th February 2017. Description of the Change: Addition of a new high temperature piezo sensor and alternative materials for existing parts to accommodate this. Updated to EU certificate format and updated standards.
04 th May 2018	<u>Supplement 5:</u> Report Reference: RR212763 dated 25 th April 2018 Description of the Change: Correction to EN 60079-1 to Issue Date: 2014. Minor documentation update.
17 th August 2018	<u>Supplement 6:</u> Report Reference: - 3061811 dated 31 st July 2018 Description of the Change: Addition of PA and FF Communication options.
16 th April 2019	<u>Supplement 7:</u> Description of the Change: Certificate transferred from FM Approvals Ltd., notified body no. 1725, to FM Approvals Europe Ltd., notified body no. 2809.
18 th June 2019	<u>Supplement 8:</u> Report Reference: RR218039 dated 24 th May, 2019 Description of the Change: Modification to I/O Board/ Additional of alternate manufacturing locations.

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Blueprint Report

ABB Engineering (Shanghai) Ltd (135922)

Class No 3610

Original Project I.D. 3048489

Certificate I.D. FM13ATEX0057X

<u>Drawing No.</u>	<u>Revision Level</u>	<u>Drawing Title</u>	<u>Last Report</u>
3KQR065015U0300	02	Wire Grounding-Dongwei	3061811
3KQZ207073U0122	0	TERMINAL BLOCK MULTIVARIABLE VERSION (DH3119 REV 1)	3048130
3KQZ207074U0122	0	TERMINAL BLOCK MULTIVARIABLE HART SURGE PROTECTED (DH3131 REV 0)	3048130
3KQZ207074U0123	0	Terminal Block Hart+Surge-Multivariable	3048130
3KXF065000G0133	2014-4-24	Supplier Control Plan-Ex relevant items for approval	6-May-14
3KXF065000G0233	2014-4-24	ABB PRU PMU Control plan-Ex item for approval	6-May-14
3KXF065017U0122	1.7	VT5 Front End schematic	RR212763
3KXF065017U0122	1.5	VT5 Front End Schmatic - Analog	3061811
3KXF065017U0123	1.5	VT5 Front End PCB Layout	3048130
3KXF065026U0009	03	FSV/FSS 430/450 REMOTE HOUSING SUB ASSEMBLY	3048130
3KXF065028U0109	3	FSS/FSV 430/450 Remote Assembly For Ex Certificattion	3055129
3KXF065028U0109	03	Remote Assembly for Ex Certification	3061811
3KXF065029U0109	2	FSV/FSS 430/450 INTEGRAL BASE BOTTOM SUB ASSEMBLY	3055129
3KXF065032U0109	2	FSS/FSV 430/450 Integral verison Assembly For Ex Certificattion	3048130
3KXF065047U0022	1.1	VT5 Remote connection board schematic	3048130
3KXF065047U0023	1.3	VT5 Remote connection board Layout	3055129
3KXF065062U0009	1	VT5 Remote connection board Assembly	3048130
3KXF065062U0121	1	VT5 Remote Connection 2 BOM	3048130
3KXF065062U0221	1.1	VT5 Remote Connection 3 BOM	3048130
3KXF065062U0321	1	VT5 Remote Connection 1 BOM	3048130
3KXF065064U0109	1.3	VT5 Front End Assembly	3048130
3KXF065064U0121	1.8	BOM of VT5 Front end	RR212763
3KXF065081U0009	3	VT5 Remote Housing Sub-Asm, FOR NON-FLAMEPROOF CERTIFICATION	3048130
3KXF065090U0109	2	FSV/FSS 430/450 Terminal Block sub-asy, 9 termianls, Without surge protector, hart	3055129
3KXF065091U0109	2	FSV/FSS 430/450 Terminal block sub-asy, 9 termianls, With surge protector, hart	3055129
3KXF065097U0109	2	FSV/FSS 430/450 Terminal Block sub-asy, 9 terminals for remote connection	3055129
3KXF065124U0109	2	VT5 INTEGRAL BASE BOTTOM SUB-ASSY, FOR NON-FLAMEPROOF CERTIFICATION	3055129
3KXF065215U0109	5	Control drawing	3054654
3KXF065215U0109	06	Control Drawing	3061811
3KXF065279U0121	02	Communicatio Board MODBUS - VT5 BOM	3061811
3KXF065280U0109	0	Communication Box Sub-Assembly, MODBUS VT5	3055129
3KXF065282U0109	0	Terminal block sub-assembly Modbus surge version	3055129
3KXF065313U0121	0	BOM of VT5 MODBUS IO Board	3055129
3KXF065313U0122	0	VT5 MODBUS IO Board Schematic	3055129
3KXF065313U0123	0	VT5 MODBUS IO Board Layout	3055129
3KXF065424U0722	00	9-Pin Enhanced Terminal Board for VT5 PA/FF	3061811
3KXF065501U0009	00	Front End & Housing PA/FF	3061811
3KXF300001R2101	I	Product Code	3057516
3KXF300003R4099	B	Safety Manual	3048130
3KXF300003R4401	F	FSV430, FSV450, FSS430, FSS450 SAFETY INSTRUCTIONS	3057516
3KXF300004R4801	A	Installation Manual (Extract)	3061811
3KXP000003U0122	0	Communication Board MODBUS - Multivariable	3055129
3KXP000003U0123	1	Communication Board MODBUS Multivariable T-Flow	3055129
3KZZ000006R2201	C	3KZZ000006R2201-C (March 2014) - BU MP Guidelines for Single Approval Certificate in Multiple Locations.pdf	6-May-14

3kxf065032u0109	03	Integral Version Assembly for Ex Certification	3061811
AU 3042	2	Part List - COMMON HMI : Type B	3055129
AU 3048	2	Display "Type B" Assembly	3055129
DH 3084	2	Common HMI : Type B	3055129
DH 3091	2	Common HMI : Type B	3055129
DH 3137	1	Terminal Block MODBUS Surge version	3055129
DH 3138	3	MILE 2 Series: Terminal Block Modbus + Surge	3055129
DH3133	00	Terminal Block Multivariable Surge Protected	3061811
IECEX FME 13.0001U	1	Component Certificate 2WCTW	3048130
IECEX FME17.0002U	01	IECEX Component Certificate for PA/FF	3061811
WDM-10-A0214	1	Piezo-sensor	3048130