



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:** FSV430 / 450 VortexMaster and FSS430 / 450 SwirlMaster
(Type Reference and Name)

5. **Name of Applicant:** ABB Engineering (Shanghai) Ltd.

6. **Address of Applicant** No 4528 ,
KangXin Highway, Pudong New District,
Shanghai. 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 4th 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 IEC 60079-0:2018, EN 60079-1:2014, EN 60079-11:2012, EN 60079-31:2014,
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.

Certificate issued by:

Digitally signed
by Richard
Zammit
Location:
Ireland
Foxit PDF Editor
Version: 13.0.1

Certification Manager, FM Approvals Europe Ltd.

Date 27 February 2024

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

F ATEX 020 (Dec/2020)



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12. The marking of the equipment or protective system shall include:



II 1/2 G Ex db ia IIC T6 Gb/Ga
II 2 D Ex tb IIIC T85°C Db
Ta = -40 °C to +75 °C

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 $U \leq 42Vdc$ 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 or stainless steel 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°C to +75°C.
Process temperature range is -200°C to +400°C.

Electrical data:

$U \leq 42Vdc$ and the current output signal (4-20 mA)
 $U_m = 45 V$

See Annex for Model Code information.

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 $< \sim 30\%$ 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

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

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Date	Description
6 April 2016	<u>Supplement 3:</u> Report Reference: 3054654 dated 05 th April 2016 Description of the Change: <ol style="list-style-type: none">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 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.
4 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 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 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 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.
10 November 2021	<u>Supplement 9:</u> Report Reference: RR227074 dated 22 nd September 2021. Description of the Change: <ol style="list-style-type: none">1. Update to include EN IEC 60079-0:20182. Addition of alternative Modbus board.3. Addition of Smart HMI.
22 July 2022	<u>Supplement 10:</u> Report Reference: RR232629 dated 20 th July 2022. Description of the Change: Documentation update to add UKCA information.
27 February 2024	<u>Supplement 11:</u> Report Reference: PR466204 dated 15 February 2024. Description of the Change(s): Modification to the Remote Connection Board.

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ANNEX

FSS430abcdefgh – Swirl Flow Transmitter – Integral Sensor

Description of Equipment:

- a = Explosion Protection Certification; A9 or B9**.
 - b = System Design; C1, C2, C3 or C4.
 - c = Process Connection Type/Meter Size/Connection Size; Not relevant to Ex product safety
 - d = Pressure Rating; Not relevant to Ex product safety
 - e = Temperature Range of Measuring Medium; A1, B1, B2 or C1.
 - f = Housing Material/Cable Glands; A1, B1, S1, or T1.
 - g = Output Signal; A1, F1, H1, H5, M4 or P1.
 - h = Additional Options; (Any of the following) C*, CG2, CG3, CT*, CU1, G1, G2, G4, G5, GC*, L1, L2, LD, LE, M*, N*, P*, RR, R5, S1, SM1, SD*, SM2, SM3, SM4, SM5, SM6, SM7, SM8, SP0, SP1, SP2, SP3, TC1, TCC, TCZ, TCS, TA4, TA5, U1, U2, NL*, NC*, NG* and/or NS*.
- * = Any single character – Not relevant to safety.
** B9 not applicable for Front End board version 20.

FSS430abcdefgh – Swirl Flow Transmitter – Remote Sensor and transmitter

Description of Equipment:

- a = Explosion Protection Certification; A9 or B9**.
 - b = System Design; R1, R2, R3 or R4.
 - c = Process Connection Type/Meter Size/Connection Size; Not relevant to Ex product safety.
 - d = Pressure Rating; Not relevant to Ex product safety.
 - e = Temperature Range of Measuring Medium; A1, B1, B2, or C1.
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 - g = Output Signal; A1, F1, H1, H5, M4 or P1.
 - h = Additional Options; (Any of the following) C*, CG2, CG3, CT*, CU1, G1, G2, G4, G5, GC*, L1, L2, LD, LE, M*, N*, P*, RR, R5, S1, SC2, SC4, SC6, SM1, SD*, SM2, SM3, SM4, SM5, SM6, SM7, SM8, SP0, SP1, SP2, SP3, TC1, TCC, TCZ, TCS, TA4, TA5, U1, U2, NC*, NL*, NG* and/or NS*.
- * = Any single character – Not relevant to safety.
** B9 not applicable for Front End board version 20.

FSS450abcdefgh – Intelligent Swirl Flow Transmitter – Integral Sensor

Description of Equipment:

- a = Explosion Protection Certification; A9 or B9**
- b = System Design; C1, C2, C3 or C4
- c = Process Connection Type/Meter Size/Connection Size; Not relevant to Ex product safety
- d = Pressure Rating; Not relevant to Ex product safety
- e = Temperature Range of Measuring Medium; A1, B1, B2, or C1

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T: +353 (0) 1761 4200 E-mail: atex@fmapprovals.com www.fmapprovals.com

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

g = Output Signal; A1, F1, H1, H5, M4 or P1.

h = Additional Options; (Any of the following) C*, CG2, CG3, CT*, CU1, G1, G2, G4, G5, GC*, L1, L2, LD, LE, M*, N*, P*, RR, R5, S1, SM1, SD*, SM2, SM3, SM4, SM5, SM6, SM7, SM8, SP0, SP1, SP2, SP3, TC1, TCC, TCZ, TCS, TA4, TA5, U1, U2, NC*, NL*, NG* and/or NS*.

* = Any single character – Not relevant to safety.

** B9 not applicable for Front End board version 20.

FSS450abcdefgh – Intelligent Swirl Flow Transmitter – Remote Sensor and transmitter

Description of Equipment:

a = Explosion Protection Certification; A9 or B9**

b = System Design; R1, R2, R3 or R4

c = Process Connection Type/Meter Size/Connection Size; Not relevant to Ex product safety

d = Pressure Rating; Not relevant to Ex product safety

e = Temperature Range of Measuring Medium; A1, B1, B2, or C1

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g = Output Signal; A1, F1, H1, H5, M4 or P1.

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FSV430abcdefgh – Vortex Flow Transmitter – Integral Sensor

Description of Equipment:

a = Explosion Protection Certification; A9 or B9**.

b = System Design; C1, C2, C3 or C4.

c = Process Connection Type/Meter Size/Connection Size: Not relevant to Ex product safety

d = Pressure Rating; Not relevant to Ex product safety

e = Temperature Range of Measuring Medium; A1, B1, B2 or C1.

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

g = Output Signal; A1, F1, H1, H5, M4 or P1.

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FSV430abcdefgh – Vortex Flow Transmitter – Remote Sensor and transmitter

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* = Any single character – Not relevant to safety.

** B9 not applicable for Front End board version 20.

FSV450abcdefgh – Intelligent Vortex Flow Transmitter – Remote Sensor and transmitter

Description of Equipment:

a = Explosion Protection Certification; A9 or B9**

b = System Design; R1, R2, R3 or R4.

c = Process Connection Type/Meter Size/Connection Size; Not relevant to Ex product safety

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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

Blueprint Report

ABB Engineering (Shanghai) Ltd (135922)

Class No 3610

Original Project I.D. 3048130

Certificate I.D. FM13ATEX0057X

Drawing No.	Revision Level	Drawing Title	Last Report
3KCNSP03439-3443	00	Measuring Tube HP/HT (included for information only)	PR466204
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	1.6	Terminal Block Hart+Surge-Multivariable	RR232629
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
3KXF065016U0123	2.2	VT5 IO Layout	RR232629
3KXF065017U0122	1.7	VT5 Front End schematic	RR212763
3KXF065017U0123	1.6	VT5 Front End PCB Layout	3048130
3KXF065019G0009	00	Block Diagram for VT5 HART	PR466204
3KXF065019U0109	18	FSS/FSV Series Safety Plates	PR466204
3KXF065023G0009	01	Block diagram for VT5 APL (included for information only)	PR466204
3KXF065025G0009	00	FSV/FSS 430/450 Multi-sensor products (included for information only)	PR466204
3KXF065026U0009	03	FSV/FSS 430/450 REMOTE HOUSING SUB ASSEMBLY	3048130
3KXF065028U0109	04	FSS/FSV 430/450 Remote Assembly For Ex Certification	PR466204
3KXF065029U0109	03	FSV/FSS 430/450 INTEGRAL BASE BOTTOM SUB ASSEMBLY	PR466204
3KXF065032U0109	05	FSS/FSV 430/450 Integral version Assembly For Ex Certification	PR466204
3KXF065047U0022	1.4	VT5 Remote connection board schematic	RR232629
3KXF065047U0023	1.4	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
3KXF065063U0109	2	VT5 IO Assessmby	RR218039
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	03	VT5 INTEGRAL BASE BOTTOM SUB-ASSY,FOR NON-FLAMEPROOF CERTIFICATION	PR466204
3KXF065200U0109	01	Enhanced Terminal Block Assembly	3054654
3KXF065200U0122	03	Enhanced EMC Terminal Block for VT5/ remote connection schematic	3054654
3KXF065200U0123	02	Enhanced EMC Terminal Block for VT5 layout	3054654
3KXF065202U0109	02	Enhanced EMC Terminal Block sub-assembly	3054654
3KXF065215U0109	07	Control Drawing	PR466204
3KXF065256U0109	02	Enhanced EMC Terminal Block sub-assembly for remote connection	3054654
3KXF065279U0121	02	Communication 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	01	VT5 MODBUS IO Board Layout	RR232629

3KXF065352U0109	01	Enhanced EMC Housing	3054654
3KXF065424U0722	00	9-Pin Enhanced Terminal Board for VT5 PA/FF	3061811
3KXF065501U0009	01	Front End & Housing	PR466204
3KXF065685U0122	00	FSX450 Modbus I/O board schematic	RR227074
3KXF065686U0123	1	FSX450 Modbus I/O board layout	RR232629
3KXF065687U0121	0	FSX450 Modbus I/O board Bom	RR227074
3KXF067057U0023	20B	Remote Connection Board layout	PR466204
3KXF067060U0021	20B	Remote Connection Board Bom	PR466204
3KXF067060U0022	20B	Remote Connection Board schematic	PR466204
3KXF067071U0021	20B	BOM for VT5-FE	PR466204
3KXF067071U0022	20C	Schematic for VT5-FE	PR466204
3KXF067072U0123	20C	PCB for VT5-FE	PR466204
3KXF300001R2101	S	Product Code	PR466204
3KXF300003R4099	B	Safety Manual	3048130
3KXF300003R4401	F	FSV430, FSV450, FSS430, FSS450 SAFETY INSTRUCTIONS	3057516
3KXF300004R4801	D	Installation Manual (Extract)	PR466204
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
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	4	Component Certificate 2WCTW	RR466204
IECEX FME17.0002U	5	IECEX Component Certificate for PA/FF	RR466204
IECEX FMG 20.0028U	0	IECEX Component Certificate for Smart HMI	PR466204
IECEX FMG 23.0002U	0	IECEX Component Certificate for APL	PR466204
WDM-10-A0214	2	Piezo-sensor	RR232629