### **EU-TYPE EXAMINATION CERTIFICATE** 2 Equipment or Protective systems intended for use in Potentially Explosive Atmospheres - Directive 2014/34/EU **EU-Type Examination Certificate No:** FM17ATEX0016X 3 Equipment or protective system: FEP63 ProcessMaster, 4 (Type Reference and Name) FEH63\_ HygienicMaster Electromagnetic Flowmeters and **FET63 Transmitters ABB** Automation Products GmbH 5 Name of Applicant: Address of Applicant: Dransfelder Straße 2. 6 D-37079 Göttingen, Germany 7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to. FM Approvals Ltd, notified body number 1725 in accordance with Article 17 of Directive 2014/34/EU of 8 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: 3059596 dated 22<sup>nd</sup> May 2018

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 60079-7:2015, EN 60079-11:2012, EN 60079-18:2015, 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.

**Vhhind** 

### Andrew Was Deputy Certification Manager, FM Approvals Ltd.

Issue date: 13 June 2018

### THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

<u>SCHEDULE</u>	FM Approvals <sup>®</sup>		
Member of the FM Global Group to EU-Type Examination Certificate No. FM17ATEX0016X			
12 The marking of the equipment or protective system shall include:			
FEH631A1fghijkImnopqrA-t.u.v – Hygienic Integral Transmitter II 2(1) G Ex db eb ib mb [ia Ga] IIC T6T1 Gb II 2(1) D Ex tb [ia Da] IIIC T80°CTmedium Db			
FEP631A1fghijkImnopqrA-t.u.v.w – Process Integral Transmitter - Design LoII 2(1) GEx db eb ib mb [ia Ga] IIC T6T1 GbII 2(1) DEx tb [ia Da] IIIC T80°CTmedium Db	evel A		
FEH632A1fghijkImnop8Y0A-t.u.v – Hygienic Remote SensorII 2 GEx eb ib mb IIC T6T1 GbII 2 DEx tb IIIC T80°CTmedium Db	JIU		
FEP632A1fghijkImnop8Y0A-t.u.v – Process Remote Sensor - Design Level A II 2 G Ex eb ib mb IIC T6T1 Gb II 2 D Ex tb IIIC T80°CTmedium Db	1		
FET632A1fopqr - t.u.v – Remote Transmitter – 'e' wallbracket II 2(1) G Ex db eb ib mb [ia Ga] IIC T6 Gb II 2(1) D Ex tb [ia Da] IIIC T80°C Db			
FET632A1fopqr - t.u.v – Remote Transmitter - 'd' wallbracket II 2(1) G Ex db [ia Ga] IIB + H <sub>2</sub> T6 Gb II 2(1) D Ex tb [ia Da] IIIC T80°C Db			
Ambient temperature range: $Ta = -20^{\circ}C$ to $+60^{\circ}C$ or $-40^{\circ}C$ to $+60^{\circ}C$ depending on See ABB Instruction Manual for ambient temperature and process temperature ra			

### **Description of Equipment or Protective System:**

The FEP6\_\_ProcessMaster, and FEH6\_\_HygienicMaster are series of electromagnetic flowmeters. The electronics enclosure is a cylindrical enclosure identified as a Type 3 or a single compartment rectangular housing identified as a Type 4.

The FEP6\_ \_ ProcessMaster, and FEH6\_ \_ HygienicMaster are both available as integral and remote designs. A high process temperature version is available and uses 40 mm or 100 mm stand-offs between the Primary and the electronics or remote connection facilities.

The sensor is available in two different versions: Process Sensor and Hygienic Sensor. The Process Sensor is available in meter size DN3 to DN2000, the Hygienic Sensor is available in meter size DN3 to DN100. The medium temperature range for the Hygienic Sensor and the medium temperature range for the Process Sensor identified as Design Level A are -40°C to +130°C for the normal temperature version and -40°C to +180°C for the high temperature version.

Enclosure rating IP65, IP67 or IP68 depending on the option selected.

### **Electrical parameters**

Power Supply (Terminals L and N)

 $\begin{array}{l} U_{DC} = 16.8V \ to \ 30V \ power \ supply \ (=\!U_{Low}); \ P_{max} <=\!20W; \ C, \ Ripple: < 5 \ \%. \\ U_{AC} = \ 100V(-15\%) \ to \ 240V \ (+10\%) \ power \ supply \ (=\!U_{High}); \ S_{max} <=\!20VA \end{array}$ 

See ABB Instruction Manual for the parameters for the Current Output, Digital Output, and Digital Input connections.

### THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE



## to EU-Type Examination Certificate No. FM17ATEX0016X

### FEH631A1fghijklmnopqrA-t.u.v – Hygienic Integral

II 2(1) G Ex db eb ib mb [ia Ga] IIC T6...T1 Gb Ta = \* to +60°C IP65/67

- II 2(1) D Ex tb [ia Da] IIIC T80°C...Tmedium Db Ta = \* to +60°C IP65/67
- \* -20°C or -40°C depending on options chosen
- f = Housing Type/Housing Material/ Cable entry: D1, D2, D3, D4, D6, or D8
- g = Meter Size: 4-digit code not relevant for safety
- h = Process Connection Type: 2-digit code not relevant for safety
- i = Process Connection Type: T1 or P1
- j = Process connection material: Single digit not relevant for safety
- k = Electrode design: 1, or 5
- I = Measuring electrode material: Single digit code not relevant for safety
- m = Grounding electrode/Full pipe detection: 0 or 2
- n = Grounding accessories: A, B or C
- o = Protection class transmitter/protection class sensor: 70 or 91
- p = Power supply: A, D, C or E
- q = Display: 1 or 2
- r = Outputs: G0, G1, G2, G3 or Y0

Additional Codes

- t = Option card 1: DR0, DRN, DRG, DRT or DRA
- u = Option card 2:DR0, DSA, DSN or DSG
- v = Temperature range of installation/Ambient temperature range: TK1, TK4, TKH or TKK

### FEP631A1fghijklmnopqrA-t.u.v.w – Process Integral

II 2(1) G Ex db eb ib mb [ia Ga] IIC T6...T1 Gb Ta = \* to +60°C IP65/67 II 2(1) D Ex tb [ia Da] IIIC T80°C...Tmedium Db Ta = \* to +60°C IP65/67 \* -20°C or -40°C depending on options chosen

- f = Housing Type/Housing Material/ Cable entry: D1, D2, D3, D4, D6 or D8
- g = Meter Size: 4-digit code not relevant for safety
- h = Process Connection Type: 2-digit code not relevant for safety
- i = Process Connection Type: R2, R3, R4, E1, T1, T3, T2, P1, C1, E2 or P2
- j = Process connection material: Single digit not relevant for safety
- k = Electrode design: 1, or 5
- I = Measuring electrode material: Single digit code not relevant for safety
- m = Grounding electrode/Full pipe detection: 0, 1, 2, or 3
- n = Grounding accessories: A, B, C, D or E
- o = Protection class transmitter/protection class sensor: 70 or 91
- p = Power supply: A, D, C, or E
- q = Display: 1 or 2
- r = Outputs: G0, G1, G2, G3, Y0

Additional Codes

- t = Option card 1: DR0, DRN, DRG, DRT or DRA
- u = Option card 2:DR0, DSA, DSN, or DSG
- v = Temperature range of installation/Ambient temperature range: TK1, TK4, TKH or TKK
- w = Sensor housing material: SMA or SMS

### FEH632A1fghijklmnop8Y0A-t.u.v – Hygienic Remote Sensor

- II 2 G Ex eb ib mb IIC T6...T1 Gb Ta = \* to +60°C IP65/67/68
- II 2 D Ex tb IIIC T80°C...Tmedium Db Ta = \* to +60°C IP65/67/68
- \* -20°C or -40°C depending on options chosen
- f = Housing Type/Housing Material/ Cable entry: A1, A2, U1, or U2
- g = Meter Size: 4-digit code not relevant for safety

### THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE





### to EU-Type Examination Certificate No. FM17ATEX0016X

- h = Process Connection Type: 2-digit code not relevant for safety
- i = Liner material: T1 or P1
- j = Process connection material: Single digit not relevant for safety
- k = Electrode design: 1, or 5
- I = Measuring electrode material: Single digit code not relevant for safety
- m = Grounding electrode/Full pipe detection: 0 or 2
- n = Grounding accessories: A, B or C
- o = Protection class transmitter/protection class sensor: 70, 76, 77 or 91
- p = Power supply: Y or W

### Additional Codes

- t = Option card 1: DR0
- u = Option card 2: DR0
- v = Temperature range of installation/Ambient temperature range: TK1, TK4, TKH or TKK

### FEP632A1fghijklmnop8Y0A-t.u.v.w – Process Remote Sensor

- II 2 G Ex eb ib mb IIC T6...T1 Gb Ta = \* to +60°C IP65/67/68
- II 2 D Ex tb IIIC T80°C...Tmedium Db Ta = \* to +60°C IP65/67/68
- \* -20°C or -40°C depending on options chosen
- f = Housing Type/Housing Material/ Cable entry: A1, A2, U1, or U2
- g = Meter Size: 4-digit code not relevant for safety
- h = Process Connection Type: 2-digit code not relevant for safety
- i = Liner material: R2, R3, R4, E1, T1, T3, T2, P1, C1, E2 or P2
- j = Process connection material: Single digit not relevant for safety
- k = Electrode design: 1, or 5
- I = Measuring electrode material: Single digit code not relevant for safety
- m = Grounding electrode/Full pipe detection: 0, 1, 2 or 3
- n = Grounding accessories: A, B, C, D or E
- o = Protection class transmitter/protection class sensor: 70, 76, 77 or 91
- p = Power supply: Y or W

**Additional Codes** 

- t = Option card 1: DR0
- u = Option card 2: DR0
- v = Temperature range of installation/Ambient temperature range: TK1, TK4, TKH or TKK
- w = Sensor housing material: SMA or SMS

### FET632A1fopqr - t.u.v – Remote Transmitter – 'e' Wallbracket

- II 2(1) G Ex db eb ib mb [ia Ga] IIC T6 Gb Ta = \* to +60°C IP65/67
- II 2(1) D Ex tb [ia Da] IIIC T80°C Db Ta = \* to +60°C IP65/67
- \* -20°C or -40°C depending on options chosen
- f = Housing Type/Housing Material/ Cable entry: W1, W2, W3, or W4
- o = Protection class transmitter/protection class sensor: 70 or 91
- p = Power supply: A, D, C or E
- q = Display: 1 or 2
- r = Outputs: G0, G1, G2, G3 or Y0

Additional Codes

- t = Option card 1: DR0, DRN, DRG, DRT or DRA
- u = Option card 2:DR0, DSA, DSN or DSG
- v = Temperature range of installation/Ambient temperature range: TK1, TK4, TKH or TKK

### THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE



### to EU-Type Examination Certificate No. FM17ATEX0016X

### FET632A1fopqr - t.u.v – Remote Transmitter - 'd' Wallbracket

II 2(1) G Ex db [ia Ga] IIB + H<sub>2</sub> T6 Gb Ta = \* to +60°C IP65/67 II 2(1) D Ex tb [ia Da] IIIC T80°C Db Ta = \* to +60°C IP65/67

\* -20°C or -40°C depending on options chosen

- Housing Type/Housing Material/ Cable entry: W5 or W7 f =
- Protection class transmitter/protection class sensor: 70 or 91 0 =
- Power supply: A, D, C or E p =

Display: 1 or 2 q =

Outputs: G0, G1, G2, G3 or Y0 r =

**Additional Codes** 

- Option card 1: DR0, DRN, DRG, DRT or DRA t =
- Option card 2: DR0, DSA, DSN or DSG u =
- V = Temperature range of installation/Ambient temperature range: TK1, TK4, TKH or TKK

### 14 **Specific Conditions of Use:**

- 1. The painted surface of the FE\*6, ProcessMaster and HygenicMaster 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 IEC TR60079-32-2 Cleaning of the painted surface should only be done with a damp cloth.
- 2. For installations in flammable dust, the cable entries shall be fitted with an appropriate cable entry device meeting the requirements of IP6x fitted with a gasket or seal between the cable entry device and the wall of the enclosure.
- 3. For Integral and Remote versions FE\*63\*A1 Category II 2 D having exposed electrodes in the process shall be used in a non-flammable liquid process only.
- 4. Contact the manufacturer for specific flamepath joint details during repair of flameproof Ex d apparatus.

### 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.

### Test and Assessment Procedure and Conditions: 16

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 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 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.

### THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE





## to EU-Type Examination Certificate No. FM17ATEX0016X

### 18 Certificate History

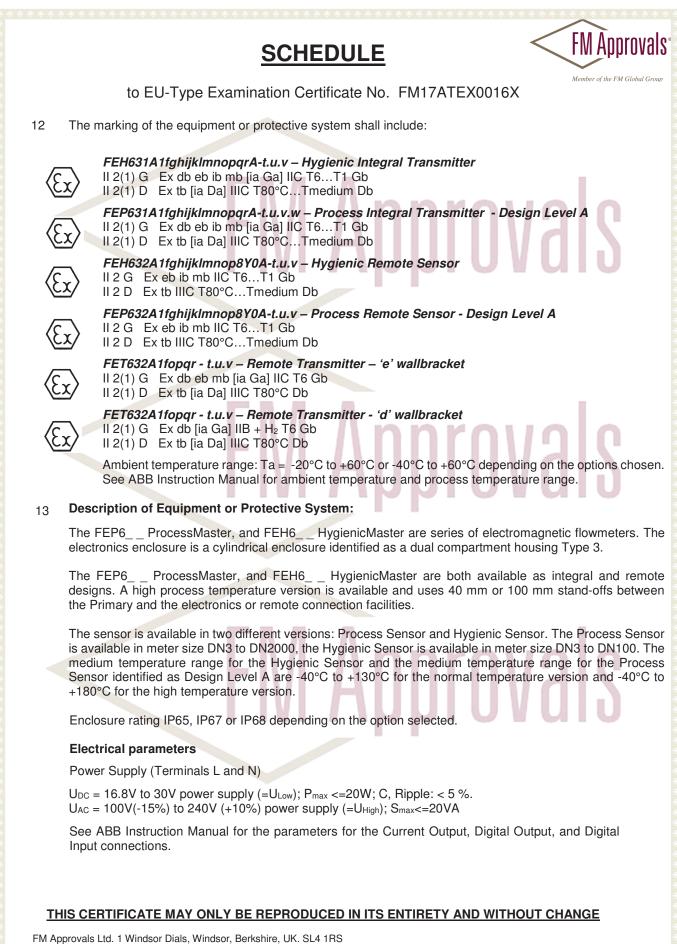
Details of the supplements to this certificate are described below:

Date	Description
13 June 2018	Original Issue.
	<b>FM Approvals</b>
	FM Approvals

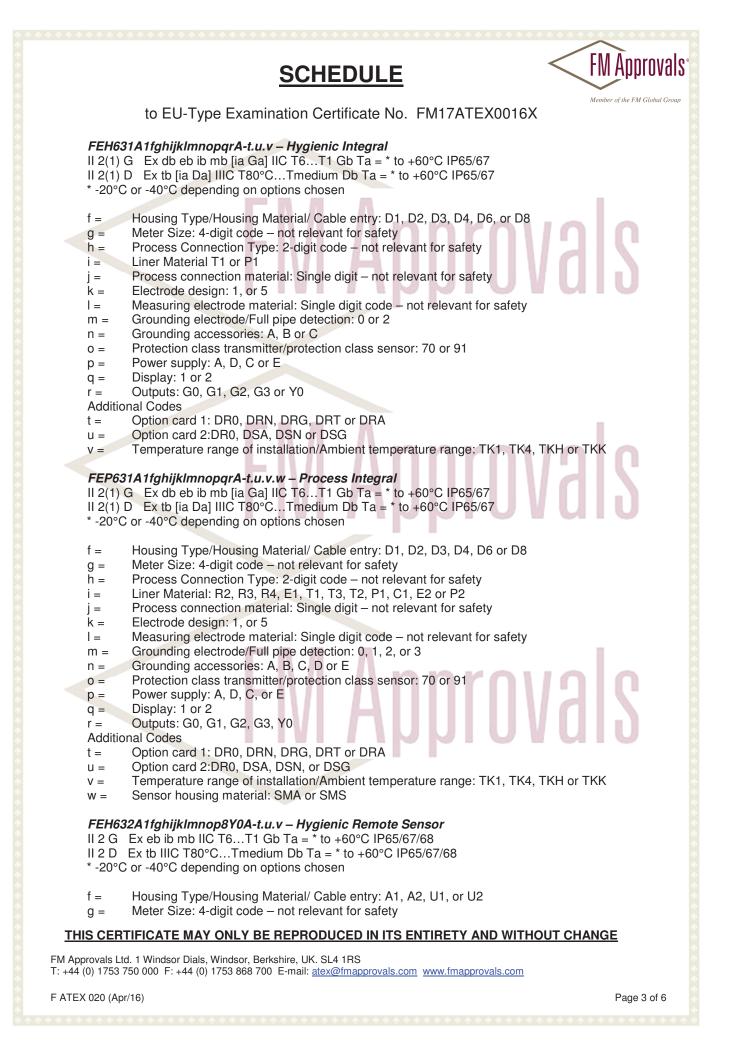
THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

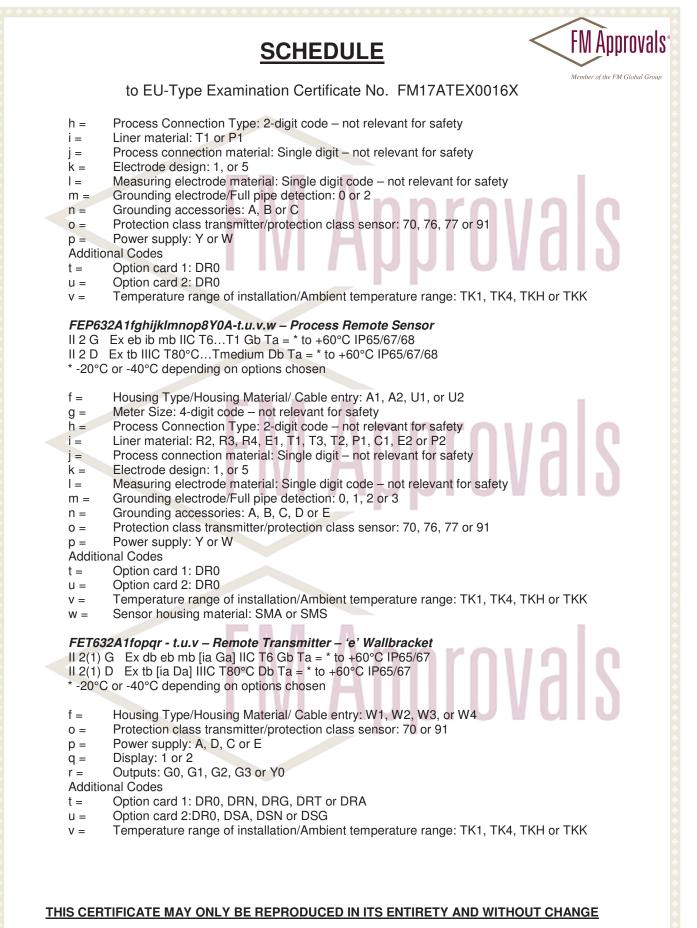
F		TION CERTIFICATE $\langle \mathcal{F}_{\mathbf{Y}} \rangle$	
1 <b>C</b>	Equipment or Protective systems intend		
-	Explosive Atmospheres - Directive 2014/	-	
3	EU-Type Examination Certificate No:	FM17ATEX0016X	
4	Equipment or protective system: (Type Reference and Name)	FEP63 _ ProcessMaster, FEH63_HygienicMaster Electromagnetic Flowmeters and FET63_Transmitters	
5	Name of Applicant:	ABB Automation Products GmbH	
6	Address of Applicant:	Dransfelder Straße 2, D-37079 Göttingen, Germany	
7	This equipment or protective system and ar certificate and documents therein referred t	ny acceptable variation thereto is specified in the schedule to this o.	
8	FM Approvals Ltd, notified body number 1725 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 record	led in confidential report number:	
	3059	596 dated 22 <sup>nd</sup> May 2018	
9		afety Requirements, with the exception of those identified in item een assessed by compliance with the following documents:	
		l 60079-1:2014. EN 60079-7:2015, EN 60079-11:2012, 79-31:2014, EN 60529:1991 + A1:2000 + A2:2013	
10	If the sign 'X' is placed after the certificate conditions of use specified in the schedule	e number, it indicates that the equipment is subject to specific to this certificate.	
11	1 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.		
	ΓIVI	Apploydis	
Am	Digitally signed by Andrew J. Was DN: cn=Andrew J. Was, o=FM Approvals Ltd, 1 Windsor Dials, Windsor Dials, Wadding & Quality Manager - EMEA, email=andrew.was@fmapprovals.c om, c=GB		
-	rew Was uty Certification Manager, FM Approvals L	td.	
Issue	e date: 16 July 2018		
TH	IS CERTIFICATE MAY ONLY BE REPROD	UCED IN ITS ENTIRETY AND WITHOUT CHANGE	
	pprovals Ltd. 1 Windsor Dials, Windsor, Berkshire, UK. S 4 (0) 1753 750 000 F: +44 (0) 1753 868 700 E-mail: <u>ate</u>		

F ATEX 020 (Apr/16)



T: +44 (0) 1753 750 000 F: +44 (0) 1753 868 700 E-mail: <u>atex@fmapprovals.com</u> www.fmapprovals.com







### to EU-Type Examination Certificate No. FM17ATEX0016X

### FET632A1fopqr - t.u.v – Remote Transmitter - 'd' Wallbracket

II 2(1) G Ex db [ia Ga] IIB + H<sub>2</sub> T6 Gb Ta = \* to +60°C IP65/67 II 2(1) D Ex tb [ia Da] IIIC T80°C Db Ta = \* to +60°C IP65/67 \* -20°C or -40°C depending on options chosen

- f = Housing Type/Housing Material/ Cable entry: W5 or W7
- o = Protection class transmitter/protection class sensor: 70 or 91
- p = Power supply: A, D, C or E

q = Display: 1 or 2

r = Outputs: G0, G1, G2, G3 or Y0 Additional Codes

t = Option card 1: DR0, DRN, DRG, DRT or DRA

- u = Option card 2: DR0, DSA, DSN or DSG
- v = Temperature range of installation/Ambient temperature range: TK1, TK4, TKH or TKK

### 14 Specific Conditions of Use:

- The painted surface of the FE\*6, ProcessMaster and HygenicMaster 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 IEC TR60079-32-2 Cleaning of the painted surface should only be done with a damp cloth.
- 2. For installations in flammable dust, the cable entries shall be fitted with an appropriate cable entry device meeting the requirements of IP6x fitted with a gasket or seal between the cable entry device and the wall of the enclosure.
- 3. For Integral and Remote versions FE\*63\*A1 Category II 2 D having exposed electrodes in the process shall be used in a non-flammable liquid process only.
- 4. Contact the manufacturer for specific flamepath joint details during repair of flameproof Ex d apparatus.

### 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 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 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.

### THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE



## to EU-Type Examination Certificate No. FM17ATEX0016X

### 18 Certificate History

Details of the supplements to this certificate are described below:

Date	Description
13 June 2018	Original Issue.
16 July 2018	Supplement 1: Report Reference: RR214851 dated 6 <sup>th</sup> July 2018. Description of the Change: Editorial corrections to the certificate.
	Description of the Change: Editorial corrections to the certificate.

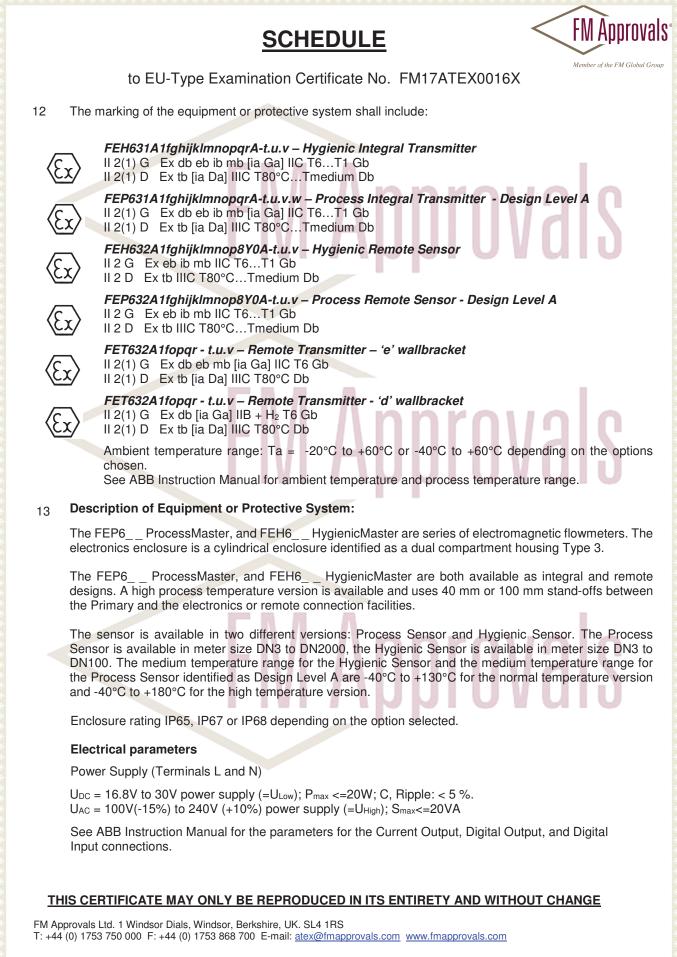
# FM Approvals

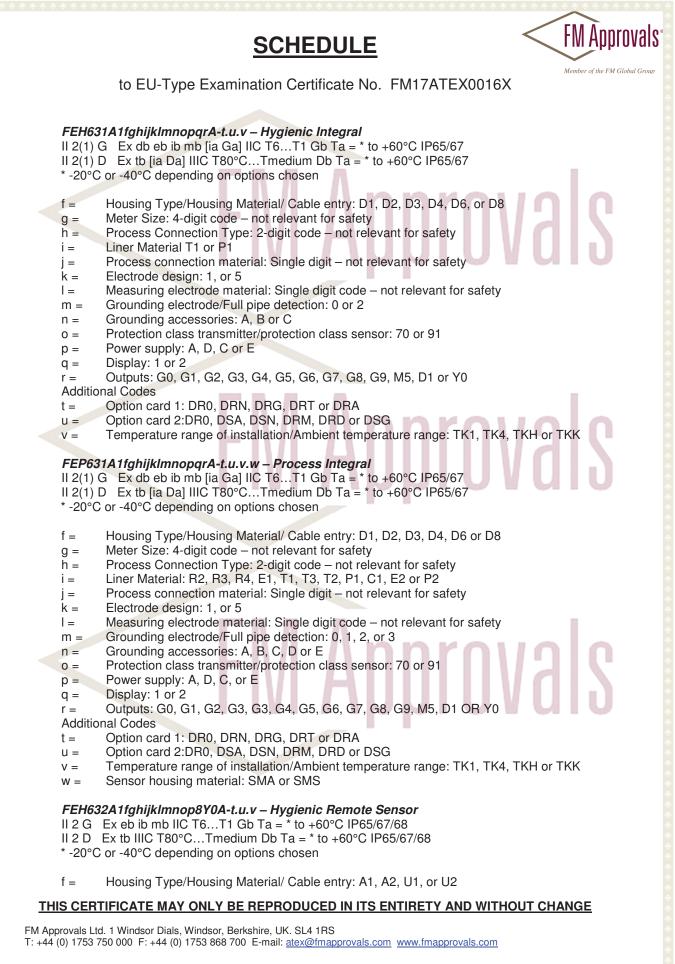
# FM Approvals

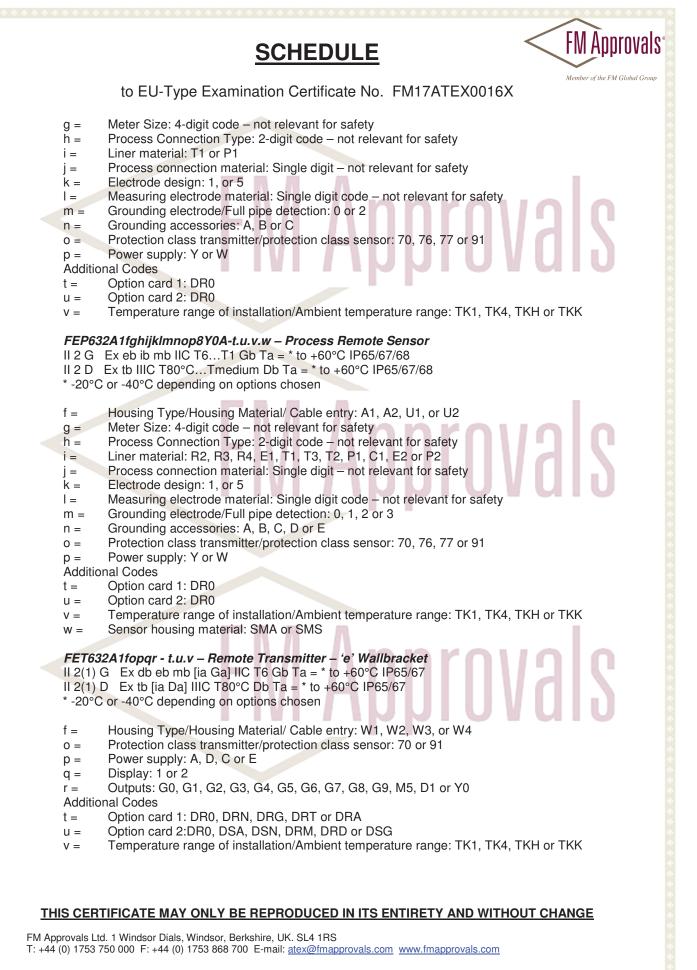
THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

1		FION CERTIFICATE $\langle \xi_{\chi} \rangle$	
2	Equipment or Protective systems intend		
	Explosive Atmospheres - Directive 2014	/34/EU	
3	EU-Type Examination Certificate No:	FM17ATEX0016X	
4	Equipment or protective system: (Type Reference and Name)	FEP63 _ ProcessMaster, FEH63_ HygienicMaster Electromagnetic Flowmeters and FET63_Transmitters	
5	Name of Applicant:	ABB Automation Products GmbH	
6	Address of Applicant:	Dransfelder Straße 2, D-37079 Göttingen, Germany	
7	This equipment or protective system and a this certificate and documents therein refer	ny acceptable variation thereto is specified in the schedule to red to.	
8	FM Approvals Ltd, notified body number 1725 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 record	ded in confidential report number:	
	30595	96 dated 22 <sup>nd</sup> May 2018	
9		Safety Requirements, with the exception of those identified in te, has been assessed by compliance with the following	
		N 60079-1:2014. EN IEC 60079-7:2015 + A1:2018, EN 60079-31:2014, EN 60529:1991 + A1:2000 + A2:2013	
10	If the sign 'X' is placed after the certificate conditions of use specified in the schedule	number, it indicates that the equipment is subject to specific to this certificate.	
11	equipment or protective system in accorda	es only to the design, examination and tests of the specified ince to the directive 2014/34/EU. Further requirements of the ss and supply of this equipment or protective system. These	
	t IVI	Approvais	
Digitally signed by Andrew J. Was DN: Cn-Andrew J. Was, On-FM Approvals Ltd. 1 Windsor Dials, Windsor Sherkhire, SJ. HIS, UK, our-assistant Vice President - Aussistant Vice President - aussistant vice President - c-G8			
Andrew Was Deputy Certification Manager, FM Approvals Ltd.			
Issue	Issue date: 12 January 2019		
<u>TI</u>	THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE		
	pprovals Ltd. 1 Windsor Dials, Windsor, Berkshire, UK. 5 4 (0) 1753 750 000 F: +44 (0) 1753 868 700 E-mail: <u>ate</u>		

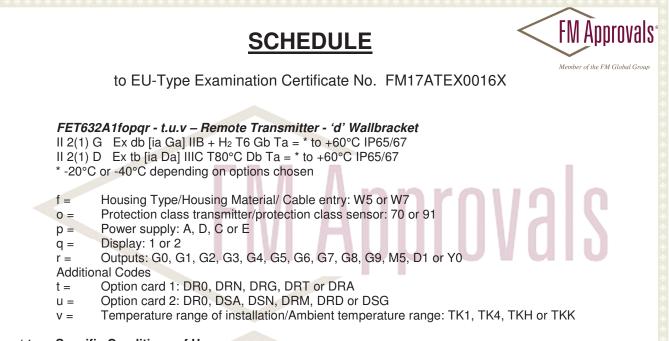
F ATEX 020 (Apr/16)







F ATEX 020 (Apr/16)



- 14 Specific Conditions of Use:
  - The painted surface of the FE\*6, ProcessMaster and HygenicMaster 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 IEC TR60079-32-2 Cleaning of the painted surface should only be done with a damp cloth.
  - 2. For installations in flammable dust, the cable entries shall be fitted with an appropriate cable entry device meeting the requirements of IP6x fitted with a gasket or seal between the cable entry device and the wall of the enclosure.
  - 3. For Integral and Remote versions FE\*63\*A1 Category II 2 D having exposed electrodes in the process shall be used in a non-flammable liquid process only.
  - 4. Contact the manufacturer for specific flamepath joint details during repair of flameproof Ex d apparatus.

### 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 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 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.

### THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE



## to EU-Type Examination Certificate No. FM17ATEX0016X

### 18 Certificate History

Details of the supplements to this certificate are described below:

Date	Description
13 <sup>th</sup> June 2018	Original Issue.
Supplement 1:           16 <sup>th</sup> July 2018         Report Reference: RR214851 dated 6 <sup>th</sup> July 2018.           Description of the Change: Editorial corrections to the certificate.	
12 January 2019	Supplement 2: Report Reference: RR215454 dated 2 <sup>nd</sup> January 2019. Description of the Change: Addition of Modbus option card. Modification to PWBs

# FM Approvals

# FM Approvals

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE