

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: FM13ATEX0100X**

4 **Equipment or protective system: AV10****, AutroVu® AV10 Universal Display Unit
(Type Reference and Name)**

5 **Name of Applicant: Autronica Fire and Security AS**

6 **Address of Applicant: Bromstadveien 59
7483 Trondheim
Norway**

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 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 recorded in confidential report number:

3050447 dated 22nd January 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 60079-29-1:2007, EN 50271:2010,
EN 60079-29-4:2010 and EN 60529:1991 + 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 2 G Ex d IIC T6 Gb Ta = -55°C to +75°C; IP66 (AutroVu® AV10 with and without NTMOS AV10abc25e2f)
II 2 G Ex d IIC T5 Gb Ta = -40°C to +75°C; IP66 (AutroVu® AV10 with CGS AV10abc25e2C)

Mick Gower
Certification Manager, FM Approvals Ltd.

Issue date: 19th January 2017

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

FM Approvals Ltd. 1 Windsor Dials, Windsor, Berkshire, UK. SL4 1RS
T: +44 (0) 1753 750 000 F: +44 (0) 1753 868 700 E-mail: atex@fmapprovals.com www.fmapprovals.com

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13 Description of Equipment or Protective System:

The AutoVu® AV10 is a Universal Display and Control Unit for use with unspecified detector heads. The housing is of stainless steel or epoxy coated aluminium and are identical in design with the only variation within the material. There are up to five entries tapped for either ½" NPT, ¾" NPT, M20 or M25. The cover screws directly to the base of the enclosure and has a cemented window on the face of the cover.

AutoVu® AV10abc25e2f, Universal Display Unit (with and without optional NTMOS conditioning board)

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II 2 G Ex d IIC T6 Gb; IP66

a = Enclosure Type: A or S

b = Number of ports: 2, 3, 4, or 5

c = Thread Type: E, F, M or N

e = Approval: W, E, S, T (one or more letters may be used)

f = Optional Conditioning board: N or Blank

U = 18-30 VDC. P= 7 Watts maximum.

The operating temperature range of the apparatus is -55°C to +75°C.

AutoVu® AV10abc25e2C, Universal Display Unit (with optional CGS conditioning board)

FM13ATEX0100X

II 2 G Ex d IIC T5 Gb; IP66

a = Enclosure Type: A or S

b = Number of ports: 2, 3, 4, or 5

c = Thread Type: E, F, M or N

e = Approval: W, E, S, T (one or more letters may be used)

Electrical parameters

U = 18-30 VDC. P= 11 Watts maximum.

The operating temperature range of the apparatus is -40°C to +75°C.

14 Specific Conditions of Use:

- 1) The AV10 control unit complies with EN 60079-29-1 when connected to a Detector Head that also has been evaluated to EN 60079-29-1.
- 2) The AV10 with CGS interface board and CGS sensor (AV10****C) complies with EN 60079-29-1.
- 3) The AutoVu® AV10 control unit complies with EN 60079-29-4 when connected to a Detector Head that also has been evaluated to EN 60079-29-4.

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.

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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.

18 Certificate History

Details of the supplements to this certificate are described below:

Date	Description
22 nd January 2014	Original Issue.
19 th January 2017	<u>Supplement 1:</u> Report Reference: 3057413 dated 15 th January 2017 Description of the Change: 1) Firmware update. 2) Update Standards. 3) Updated to EU certificate format.

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