



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx FMG 13.0042X Issue No: 1 Certificate history:
Status: **Current** Page 1 of 4 [Issue No. 1 \(2017-01-15\)](#)
Date of Issue: **2017-01-15** [Issue No. 0 \(2014-01-27\)](#)
Applicant: **Autronica Fire and Security AS**
Bromstadveien 59
7483 Trondheim
Norway
Equipment: **AutroVu AV10 and AV20**
Optional accessory:
Type of Protection: **Flameproof**
Marking: Ex d IIC Gb, AV10 without integral CGS T6 Ta = -55°C to +75°C, IP66,
AV10 with integral CGS T5 Ta = -40°C to +75°C,
AV20 T6 Ta = -20°C to +70°C, IP66

*Approved for issue on behalf of the IECEx
Certification Body:*

J. E. Marquedant

Position:

Manager, Electrical Systems

*Signature:
(for printed version)*

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](#).

Certificate issued by:

FM Approvals LLC
1151 Boston-Providence Turnpike
Norwood, MA 02062
United States of America





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Manufacturer: **Autronica Fire and Security AS**
Haakon VII gt. 4
7483 Trondheim
Norway

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-29-1 : 2007 Edition:1	Explosive Atmospheres - Part 29-1: Gas Detectors - Performance requirements of detectors for flammable gases
IEC 60079-29-4 : 2009 Edition:1.0	Explosive atmospheres - Part 29-4: Gas detectors - Performance requirements of open path detectors for flammable gases

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[US/FMG/ExTR13.0045/00](#) [US/FMG/ExTR13.0045/01](#)

Quality Assessment Report:

[NO/NEM/QAR10.0005/05](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

AutroVu[®] AV10abc25e2f, Universal Display Unit (with and without optional NTMOS conditioning board)

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

AutroVu[®] AV10abc25e2C, Universal Display Unit (with optional CGS conditioning board)

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)

AutroVu[®] AV20abc26e2, Universal Display Unit.

a = Enclosure Type: A or S

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

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

e = Approval: E, T or W

CONDITIONS OF CERTIFICATION: YES as shown below:

1. The AV10 and AV20 display units comply with IEC 60079-29-1.
2. The AV10 and AV20 display units comply with IEC 60079-29-1 when connected to a detector head with an IEC certificate of conformity to IEC 60079-29-1.
3. The AV10 with CGS interface board and CGS sensor (AV10****C) complies with IEC 60079-29-1.
4. The CGS Combustible Gas Sensor is to be installed in places where there is low risk of mechanical damage.
5. The CGS Combustible Gas Sensor must only be mounted into the enclosures of the AV10 or the Sensor Termination Box Model STB Series when configured for use with the AV10/CGS Gas Detector.
6. The actual enclosure must provide a maximum measured reference pressure of 15 bar measured according to IEC 60079-1:2007, §16.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Firmware and model matrix updates.