

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:** FM13ATEX0101X

4 **Equipment or protective system:
(Type Reference and Name)** AutroVu® AV20 Universal Display Unit

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

6 **Address of Applicant:** Haakon VII's gt. 4
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 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:

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 60079-0:2018, EN 60079-1:2014, EN 60079-29-1:2016, 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 2 G Ex db IIC T6 Ta = -20°C to +70°C; IP66

Richard Zammitt
Certification Manager, FM Approvals Europe Ltd.

Issue date: 18th January 2023

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

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13 Description of Equipment or Protective System:

The AutoVu® Model AV20 Universal Display unit is designed to be used with the GT3000 Toxic Gas Detector or PIRECL Combustible Gas Detector. The AV20 functions as a pass through device, reading the linear 4-20 mA dc output signal from the gas detector. The detected gas concentration is indicated on an alpha-numeric display. The AV20 automatically detects the gas type and operating range of the sensor to which it is connected via the HART signal.

The AV20 Instrument Housing is of stainless steel or aluminium. There are five entries tapped for either ½ inch NPT, ¾ inch 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.

The operating temperature range of the equipment is -20°C to +70°C.
Firmware: 009850-001 Rev. E

Electrical parameters:
U = 18-30 Vdc, P = 1 W maximum

AutoVu® AV20abc26d2. 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.
d = Approval: E, T or W.

14 Specific Conditions of Use:

1. The AV20 control unit complies with EN 60079-29-1 only when connected to a Detector head that also has been evaluated to EN 60079-29-1.
2. Flameproof joints are not user serviceable; contact Autronica Service.

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.

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17 Schedule Drawings

Details of the approved drawings and documents are identified in the confidential reports identified in item 8 and 18 and copies have 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. |
| 16 th January 2017 | <u>Supplement 1:</u> Report Reference: 3057413 dated 15 th January 2017 Description of the Change: <ol style="list-style-type: none">1. Addition of Model PIRECL for use with the Model AV20.2. Update standards3. Update to EU format certificate |
| 22 nd August 2018 | <u>Supplement 2:</u> Report Reference: PR450340 dated 10 th August 2018 Description of the Change: Updated documentation. Verification of compliance to EN 60079-1:2014. Added firmware version to the certificate. |
| 21 st March 2019 | <u>Supplement 3:</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 January 2023 | <u>Supplement 4:</u> Report Reference: PR455397 dated 14 th November 2022. Description of the Change: Update of standards. |

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Blueprint Report

Autronica Fire and Security AS (1000002617)

Class No 6320

Original Project I.D. 3050447

Certificate I.D. FM13ATEX0101X

| <u>Drawing No.</u> | <u>Revision Level</u> | <u>Drawing Title</u> |
|--------------------|-----------------------|---------------------------------------|
| 3057413 | 01/15/17 | Private labeler/Trade Agent Agreement |

| <u>Last Report</u> |
|--------------------|
| 3057413 |