

[1] **EU-TYPE EXAMINATION CERTIFICATE**



[2] **Equipment or Protective System intended for use  
in Potentially Explosive Atmospheres  
Directive 2014/34/EU**

[3] EU-Type Examination Certificate Number: CNEX 16 ATEX 0012X Issue 1

[4] Equipment or Protective System: Explosion-proof Data Acquisition Unit model HM-DAU

[5] Manufacturer: Haimo Technologies Group Corp.

[6] Address: No. 593, Zhangsutun, Lanzhou, Gansu, 730010,  
P.R. China

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] CNEX-Global B.V., Notified Body number 2614, in accordance with Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. P17003.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0:2012 + A11:2013    EN 60079-1:2014**

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to specific conditions for use specified in the schedule to this certificate.

[11] This EU – Type examination certificate relates only to the design and construction of the specified equipment or protective system. 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 the following:

**II 2 G    Ex db IIB T6 Gb**

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Certification officer: Wu Jianguo

Signature:

Date of issue: 2017-05-16

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Certification Body: CNEX-Global B.V., Utrechtseweg 310, 6812 AR, Arnhem, the Netherlands

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**SCHEDULE**  
**EU-TYPE EXAMINATION CERTIFICATE No.**  
**CNEX 16 ATEX 0012X Issue 1**  
**Report: 17003**

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Description of equipment:

Explosion-proof Data Acquisition Unit type HM-DAU, constructed with type of explosion protection enclosure 'd'. The enclosure is made of stainless steel and includes a data acquisition unit (DAU), an AC/DC subassembly, a power protection subassembly and terminals. The cover is fitted with an observation window made of toughened glass.

Nomenclature for model HM-DAU5aa/Ex-bbb-cccc

- HM - Haimo Technologies Co. Ltd
- DAU - Data Acquisition Unit
- 5aa - Type encoding
- Ex - Explosion proof
- bbb - b1 = B: breather valve option, O: No breather valve  
b2 = W: display window option, O: No display window  
b3 = A: power AC/DC option, O: No AC/DC
- cccc - Software code

Ambient temperature range

The ambient temperature range is limited to -20°C ...+60°C.

Electrical Data:

Input voltage ..... : 240 Vac or 24 Vdc

Operating current ..... : 10 A max.

Mounting Instructions:

See User Manual.

Installation Instructions:

Only suitable certified flameproof cable glands, stopping plugs and breathing devices are to be used, suitable for the conditions of use, minimum IP66 rated and correctly installed.

If needed, repairs of flameproof joints must only be made in compliance with the structural specifications supplied by the manufacturer.

Use only cover bolts M10 x 30, class A2-70, with a minimum yield stress of 450 MPa.

Routine Tests:

Each flameproof enclosure of the model HM-DAU shall be tested with an overpressure test according to EN 60079-1 Clause 16.1, with an overpressure of at least 1020 kPa for minimum 10 seconds.

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Descriptive Documents:

See report P16025 (CQST/ExTR1210G030)

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[17] Specific Conditions for Use:

The flameproof joints are not intended to be repaired.

[18] Essential Health and Safety Requirements:

Concerning ESR this Schedule verifies compliance with the Annex III of 2014/34/EU directive only. The manufacturer's Declaration of Conformity declares compliance with other relevant requirements and Directives.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.

Additional Information:

The flameproof enclosure of the Data Acquisition Unit type HM-DAU successfully passed Ingress Protection level IP66 to EN 60529.

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