



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 Number **LOM 13ATEX2001X** Issue: **1** Rev: **1**

4 Product Flow meters
Types M21 y AD**

5 Manufacturer Tecfluid S.A.

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08090 Sant Just Desvern (BARCELONA)
SPAIN

7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 El Laboratorio Oficial J.M. Madariaga (LOM), Notified Body No. 0163, in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential Report **LOM 22.341S**

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

- Standards **EN IEC 60079-0:2018** **EN 60079-11:2012**

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following:



II 1G Ex ia IIC T6...T4 Ga
II 1D Ex ia IIIC T* °C Da

This certificate is a rectification of errors. In point (A3), the variant ADI is described as "Impact disk flow meter with reading system enclosure".

Getafe,
Electronically signed by:

Certification Committee

RCPCR 25.7/7

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LABORATORIO OFICIAL J. M. MADARIAGA

13 SCHEDULE

14 EU-Type Examination Certificate Number: LOM 13ATEX2001X

Issue: 1

Rev1

15 Description of product

M21 and AD * flow meters are based on a section of pipe through which a fluid, in some cases by displacing a float and other displacing a disk. Attached to the pipe is placed an enclosure containing the reading flow system. This enclosure can be made of aluminium, stainless steel or polypropylene.

Types and
variants

M21	Flow meter with conical float with reading system enclosure
AD	Impact disk flow meter without reading system enclosure
ADI	Impact disk flow meter with reading system enclosure

The equipment with two wire transmission includes a circuit called HALLTEC VI having two variants, TH6 with 4-20 mA output and TH6H with HART support..

Equipment with limit switch detectors include one or two detectors:

M1-AMD1	One NAMUR inductive detector
M1-AMD2	Two NAMUR inductive detector
1A	One reed micro-switch
2A	Two reed micro-switch

Type codification:

*** **

Type: M21, AD, ADI

Transmitter variant: without transmitter, TH6 or TH6H

Limit switch variant: without limit switch, AMD1, AMD2, 1A or 2A

Specific parameters of the type of protection

Variants with transmitter TH6 / TH6H	Variants with transmitter TH6 / TH6H Encapsulated	Variants that only include inductive detectors	Variants that only include reed micro switches	
Ex ia IIC T4 Ga	Ex ia IIC T6 Ga Ex ia IIIC T200 85 °C	Ex ia IIC T6 Ga Ex ia IIIC T200 85 °C Da	Ex ia IIC T6 Ga	Ex ia IIIC T135 °C Da
Ui: 30 V Ci: 56 nF Li: 0 Pi: 1 W	Ui: 30 V Ci: 56 nF Li: 0 Pi: 1 W	Ui: 16 V Ii: 25mA Pi: 64 mW Ci: 30nF Li: 100 µH	Ci: 0 Li: 0	Pi: 750 mW Ii: 250 mA Ci: 0 Li: 0

When combined variants with transmitter and inductive sensors, the connection of the respective circuits should be kept separate by independent cables.

Changes in this issue

- Update to the standard EN IEC 60079-0:2018
- The standard EN 60079-26 is no longer in scope
- Type of protection parameters are updated

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17 Specific conditions of use

- The variants with aluminium enclosures shall only be installed in locations with low risk of mechanical impact.
- There is a risk of electrostatic charge due to the part of the enclosure in polypropylene and to the plastic window part. The manufacturer's safety manual shall be followed.
- The wiring of the variants that incorporate a transmitter and inductive detector must be kept separately



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13 ANEXO

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18 Essential health and safety requirements

Met by compliance with the requirements mentioned in item 9.

According to Article 41 of Directive 2014/34/EU, EC-type examination certificates which have been issued according to Directive 94/9/EC prior to the date of coming into force of Directive 2014/34/EU (April 20, 2016) may be considered as if they were issued already in compliance with Directive 2014/34/EU. By permission of the European Commission, supplements to such EC-type examination certificates and new issues of such certificates may continue to hold the original certificate number issued before April 20, 2016.

19 Drawings and Documents

Number	Sheets	Issue	Date	Description
R-ET-AV2ATEX	11	2	2022-11-04	(*) Technical dossier
239520071	1	0	2011-09-10	Halttec VI schematics
2689101006	1	1	2022-12-22	(*) Marking label
P239520071/02	2	0	2012-04-04	Component list
P693120046/03	1	0	2012-08-29	PCB drawing
P116810010/02	2	0	2012-02-17	M21/ADI set and part list
P116810012/02	2	0	2012-02-17	M21/ADI + 1 AMD set and part list
P116810014/02	2	0	2012-02-17	M21/ADI + 2 AMD set and part list
P116810016/02	2	0	2012-02-17	M21/ADI + TH6 set and part list
R-MI-AD15	32	4	2022-12	(*) Series AD user manual
R-MI-M21	44	5	2022-12	(*) Series M21 user manual

20 History of variations

Issue	Date	Number of report	Description
0	2013-01-22	LOM 12.475 VP	First certificate