

EU - TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

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- 3 EU - Type Examination Certificate Number: **SGS25ATEX0099X**
- 4 Product: **TA-100 Series Accelerometer**
- 5 This certificate is held by: **Costruzioni Elettro Meccaniche Ing. Buzzi & C. - S.p.A**
- 6 Address: **Via Risorgimento, 9, Mandello del Lario , LC, 23826 Italy**
- 7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- 8 SGS Fimko Oy, Notified Body number 0598, in accordance with Article 17 of 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 confidential Report No. **25(C)0627**
- 9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018 EN 60079-11:2012
- 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 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. 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:
-  See Schedule

SGS Fimko Oy Customer Reference No. **8531**

Project File No. **25/0627**

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S003 (EN ISO/IEC 17065)



Mikko Välimäki
SGS Fimko Oy

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Schedule

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Certificate Number SGS25ATEX0099X

15 Description of Product

The TA-100 Series Accelerometer is designed to measure acceleration, shock or vibration by converting the signal generated by the compression of a piezo electric crystal by a given seismic mass and outputting a broadband ac signal to the monitoring equipment.

The accelerometer comprises a piezo electric crystal connected to a signal conditioning board, all contained within a stainless-steel enclosure of various shapes measuring approximately 25cm³. The enclosure is a fully welded construction.

Electrical connections are made to the apparatus either via an IP65 rated Mil-C 2 Pin Connector or via PUR integral cable of length 5 or 10 meter is encapsulated in the end of the apparatus.

The apparatus has the following terminal parameters:

Connector only	10m of Cable
Ui = 28V	Ui = 28V
Ii = 93mA	Ii = 93mA
Pi = 0.65W	Pi = 0.65W
Ci = 1.0nF	Ci = 9.9nF
Li = zero	Li = 7μH or Li/Ri = 15.4μH/Ω

Equipment Marking

- ⊠ II 1G Ex ia IIC T4 Ga (-55°C ≤ Ta ≤ +110°C)
- ⊠ II 1D Ex ia IIIC T₂₀₀200°C IP65 Da (-55°C ≤ Ta ≤ +110°C)
- ⊠ II 1G Ex ia IIC T6 Ga (-55°C ≤ Ta ≤ +60°C)
- ⊠ II 1D Ex ia IIIC T₂₀₀150°C IP65 Da (-55°C ≤ Ta ≤ +60°C)

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Specific Conditions of Use

1. The free end of the cable on the integral cable version of the apparatus must be terminated in an appropriately certified dust proof enclosure when dust protection is required.

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Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
1.2.7	LVD type requirements
1.2.8	Overloading of equipment (protection relays, etc.)
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
M06-114-1-A	1 of 2	A	22/12/2025	General Arrangement and Product Information for Group II and Group III for TA-100 Accelerometers
M06-114-2-A	2 of 2	A	22/12/2025	General Arrangement and Product Information for Group II and Group III for TA-100 Accelerometers

For all other drawings, see Baseefa07ATEX0144X