

EU TYPE-EXAMINATION CERTIFICATE

1. **EU type-examination Certificate (Module B)**
2. **Equipment or Protective System intended for use in potentially explosive atmospheres (Directive 2014/34/EU)**
3. **EU type examination certificate Nr ITS 09 ATEX 26207X R.1**



4. **Product:** Magnetic Speed Sensor Model 70085-1010-517
5. **Manufacturer:** AI-TEK INSTRUMENTS, LLC **Applicant:** AI-TEK INSTRUMENTS, LLC
6. **Address:** 152 Knotter Drive
Cheshire, CT 06410
USA **Address:** 152 Knotter Drive
Cheshire, CT 06410
USA

7. This product and any acceptable variation thereto are specified in the schedule to this certificate and therein referred to.
8. INTERTEK ITALIA S.p.A., Notified Body n° 2575 in accordance with article 17 of the Directive 2014/34/EU of the European Parliament and Council of the 26 February 2014, certifies that the 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 system intended for use in potentially explosive atmosphere, given in Annex II of the Directive.

The examination and tests results are recorded in confidential technical evaluation Intertek Report Nr. 104722465DAL-002 Dated 2022-01-26.
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0: 2018 and EN 60079-11:2012 except in respect of those requirements referred to at item 16 of the Schedule.
10. If the sign X is placed after the certificate number, it indicates that the product is subject to Special Conditions for Safe 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:



II 2G
Ex ia IIC T4 Gb
Tamb: -65°C to +95°C

09 March 2022

Certificate issue date

Todd Relyea
Certification Officer
Intertek Italia S.p.A. (NB 2575)



PDR N° 277B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

This certificate has been issued by Intertek Italia S.p.A. NB 2575 on transfer from Intertek Testing & Certification Ltd. (NB 0359) using the same issued original certificate number.



This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

Intertek Italia S.p.A. Via Miglioli, 2/A - 20063 Cernusco sul Naviglio, Milano - Italy

LFT-EMEA-IT-ATEX-OP-23a (29 August 2019)



SCHEDULE

EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS 09 ATEX 26207X R.1

13. DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM

The Magnetic Speed Sensor is a magnetic pickup mounted in a 304 stainless steel enclosure and filled with potting material (epoxy). The unit is to be supplied from an intrinsically safe barrier MTL774ac or similar. The unit does not have an IP rating marked on them. The machined and potted construction of the component has one threaded connection which depends on the enclosure the component is connected to for ingress protection.

CE Marking shall be accompanied by the identification number of the Notified Body responsible for surveillance of production.

14. DRAWINGS AND DOCUMENTS

TITLE	DOCUMENT Nr	LEVEL	DATE
BOBBIN	017-0330	D	12/14/2017
COIL & CABLE ASSEMBLY ATEX	533-0327	E	07/21/2014
SENSOR, SPEED, ATEX & IEC Ex, ZONE 1 FAMILY (5 Sheets)	70085-3030-XXX	C	04/27/2016
*Housing marked ATEX	097-0935	G	06/16/2020
*SENSOR, SPEED, ATEX & IEC Ex, ZONE 1	70085-1010-517	E	08/20/2021
*Installation Instructions Magnetic Speed Sensor ATEX Zone 1 (4 pages)	960-0123-001	H	08/20/2021
*DECLARATION OF CONFORMITY	960-0129-001	J	08/20/2021
*DECLARATION OF CONFORMITY	960-0122-001	P	08/20/2021

Copies of the above listed documents are kept at Intertek Italia S.p.A. archive.

15. SPECIAL CONDITIONS FOR SAFE USE:

- The Magnetic Speed Sensor is to be supplied from an intrinsically safe barrier MTL7764ac with the intrinsic safe parameters as described in BAS01ATEX7217, including all issued supplementary, or other barriers with similar parameters.
- The Magnetic Speed Sensor is marked with the warning “Must be used with Intrinsic Barrier MTL776ac or similar”

16. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant essential Health and Safety Requirements have been identified and assessed in Intertek Report Nr. 104722465DAL-002 Dated 2022-01-26

17. ROUTINE (FACTORY) TESTS

N/A



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18. DETAIL OF CERTIFICATE CHANGES

- Updated standard from EN 60079-0:2012+A11:2013 to EN IEC 60079-0:2018
- Updated drawings
 - 097-0935 from F 09/30/2016 to G 06/16/2020
 - 70085-1010-517 from D 04/27/2016 to E 08/20/2021
 - 960-0123-001 from G 09/30/2016 to H 08/20/2021
- Added two controlled drawings
 - 960-0129-001, Rev J, Dated 08/20/2021
 - 960-0122-001, Rev P, Dated 08/20/2021