



# Certificate of Compliance

Certificate: 1128540

Master Contract: 214887

Project: 80006961

Date Issued: July 2, 2019

Issued To: **AI-TEK Instruments, LLC**  
**152 Knotter Dr**  
**Cheshire, Connecticut, 06410**  
**United States**

Attention: Diane Schiavo

*The products listed below are eligible to bear the CSA Mark shown*

Issued by: *James Cotton*  
James Cotton



## PRODUCTS

CLASS - C225802 - PROCESS CONTROL EQUIPMENT For Hazardous Locations

**Class I, Division 1, Groups A, B, C and D; Class II, Division 1, Groups E, F and G:**

- Passive Speed Sensor, models: 70085-1010-005, 70085-1010-081, 70085-1010-327, 70085-1010-328, 70085-1010-329, 70085-1010-330, 70085-1010-411, 70085-1010-412, 70085-1010-413, 70085-1010-414, 70085-1010-422, 70085-1010-456, 70085-101008130, and 70085-101032930. Output rated: 95 Vrms (270V, P-P) max, 0.05 A max. Ambient temperature: -15°C to 95°C (**T4A**).
- Active Speed Sensor, models: RH1512-026, RH1512-027, RH1522-026, RH1522-027, RH1612-025, RH1612-026, RH1612-027, RH1622-026, and RH1622-027. Rated: 4.5 to 24 Vdc, 0.05 A max. Ambient temperature: -40°C to 120°C (**T4**), or -40°C to 85°C (**T5**).



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### APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No. 0-M91 (Reaffirmed 2006)	General Requirements - Canadian Electrical Code, Part II
CSA C22.2 No. 142-M1987 (Reaffirmed 2014)	Process Control Equipment
CSA C22.2 No. 25-1966 (Reaffirmed 2014)	Enclosures for Use in Class II Groups E, F, and G Hazardous Locations
CSA C22.2 No. 30-M1986 (Reaffirmed 2016)	Explosion-Proof Enclosures for Use in Class I Hazardous Locations

### MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown without an indicator for Canada only (indicating that products have been manufactured to the requirements of Canadian Standards).

The following markings are permanently stamped, electro-etched, laser engraved or rolled on the surface of the instrument:

- Manufacturer's name: "Ai-Tek Instruments", or CSA Master Contract Number "214887", adjacent to the CSA Mark in lieu of manufacturers name.
- Model number: As specified in the PRODUCTS section, above.
- Electrical ratings: As specified in the PRODUCTS section, above.
- Ambient temperature rating: As specified in the PRODUCTS section, above.
- Manufacturing date in YYMM format, or serial number, traceable to month of manufacture.
- The CSA Mark, as shown on the Certificate of Conformity.
- Hazardous Location designation, as specified in the PRODUCTS section, above (may be abbreviated).
- Temperature code: As specified in the PRODUCTS section, above.  
Note: May be marked with a higher code (e.g. T3C).
- The following words:
  - "SEAL REQUIRED WITHIN 18 INCHES", or suitable equivalent.
- Function of lead wires shall be marked on housing (identified by color).



## Supplement to Certificate of Compliance

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*The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.*

### Product Certification History

Project	Date	Description
80006961	2019-07-02	Update report 1128540 with revised drawings. Temperature code for RH series reassessed and corrected. The following models are obsolete and thereby delisted: AIRPAX/087-304-0036, -0038, N1611-010 and N1612-010, Airpax/H1612-025, H1612-025, H1512-026, H1512-027, H1522-026, H1522-027, H1612-026, H1612-027, H1622-026, and H1622-027. Product model listing and report contents updated for clarification. No new models or ratings added.
70006870	2014-07-17	Evaluation for update of report 1128540 to include revised drawings. Assumes no testing and minor evaluation necessary.
2641872	2013-07-25	Update to report 1128540 to include drawing revisions that include the addition of an alternate Coil Form (Bobbin) and revise Ground ring assembly drawing numbers.
2533512	2012-06-27	Update to report 1128540 to include drawing revisions that include the addition of board configuration and board assembly configuration.
2415117	2011-04-26	Update to report 1128540 with revised drawings and editorial changes.
2325399	2010-08-13	Update report 1128540 to update temperature code, evaluate the use of other epoxies and to update drawings.
2196542	2009-08-27	Update report 1128540 to add models 70085-101008130, and -101032930.
2095719	2008-11-24	Update to report 1128540 to change Hysol CP2-4289 epoxy to Maryland Plastics MPC 4289 epoxy
1714879	2005-10-25	Update to Report No. 1128540 to cover alternate construction and part no. designation change.
1128540	2000-10-10	Speed Sensor, P/N's H1612-025, H1512-026, H1512-027, H1522-026, H1522-027, H1612-026, H1612-027, H1622-026, and H1622-027. Supersedes report LR42648-12.



42648-15	1997-02-19	Use of alternative sensors.
42648-14	1996-08-13	Zero velocity digital pick-up Airpax/H1612-025.
42648-13	1994-07-18	Update to Report LR 42648-12, to cover Part Number Designation change.
42648-12	1994-02-22	Original Certification.