



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx CSA 13.0004X Issue No: 2 Certificate history:  
Status: **Current** Issue No. 2 (2018-07-20)  
Date of Issue: **2018-07-20** Page 1 of 4 Issue No. 1 (2014-10-17)  
Applicant: **Automation Products Group, Inc.** Issue No. 0 (2013-03-08)  
1025 W 1700 N Logan  
Utah, 84321  
**United States of America**

Equipment: **4-20mA Pressure Transmitter (HU-L24, HU-1502SS, and HU-1502I)**  
*Optional accessory:*

Type of Protection: **Ex ia**

Marking: Ex ia IIB T4 Ga  
Ta: -40°C to +85 °C

*Approved for issue on behalf of the IECEx  
Certification Body:*

Dorin Stochitoiu

*Position:*

Technical Advisor

*Signature:  
(for printed version)*

*Date:*

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**CSA International**  
178 Rexdale Boulevard  
Toronto, Ontario M9W 1R3  
Canada





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Manufacturer: Automation Products Group, Inc.  
1025 W 1700 N Logan  
Utah, 84321  
United States of America

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

## STANDARDS:

The apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

**IEC 60079-0 : 2011** Explosive atmospheres - Part 0: General requirements  
Edition:6.0  
**IEC 60079-11 : 2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

## TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

### Test Report:

[CA/CSA/ExTR13.0004/00](#) [CA/CSA/ExTR13.0004/01](#) [CA/CSA/ExTR13.0004/02](#)

### Quality Assessment Report:

[NL/DEK/QAR13.0027/03](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The HU-L24-IS-nnK-PSIS-Enn-Pnn-Knn-Bnn, HU-1502SS-Ln, and HU-1502I-Ln 4-20mA Pressure Transmitters consists of encapsulated electronics on two, separate printed circuit boards which connects to a silicon resistive strain gage arranged in a Wheatstone bridge configuration mounted in a two-part housing. The upper half of the housing has one of the two printed circuit boards, dedicated for EMI protection. The bottom half of the two part housing is comprised of the second printed circuit board (main electronics) and the strain gage element which are mounted on a thin walled section of the enclosure. The strain gage connects to the main board in the lower housing via a ribbon cable. There is no direct process connection between the pressure sensor and the external environment being measured. External electrical connections are made to the connector fitted at one end.

The equipment has the following safety description (Entity Parameters):

$U_i = 28V$ ,  $I_i = 110mA$ ,  $P_i = 1W$ ,  $C_i = 60.89nF$ ,  $L_i = 7.7mH$

### SPECIFIC CONDITIONS OF USE: YES as shown below:

- To maintain IP67/65 rating, the equipment shall be installed with a certified IP67/65 mating connector.
- This device must be connected to an approved safety barrier (located in a safe area).



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## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

Issue 1: The change involves modification of the EMI board to add a common mode choke and protective circuitry to better protect the Hammer Union sensor against surges and fast transients. The Li parameter has been modified as a result. The customer also lowered the Ui value.

Issue 2: The change involves the addition of two new models, which are enclosure variants of the existing model. These two new models are denoted as the HU-1502SS and the HU-1502I. No electrical changes.