



# 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 10.0013X Issue No: 1 Certificate history:  
Status: **Current** Page 1 of 5 [Issue No. 1 \(2014-12-10\)](#)  
Date of Issue: **2014-12-10** [Issue No. 0 \(2010-11-16\)](#)  
Applicant: **Martel Electronics Corp.**  
3 Corporate Park Drive  
Derry, NH 03038  
**United States of America**  
Electrical Apparatus: **Pressure Calibrators**  
*Optional accessory:*  
Type of Protection: **Ex ia**  
Marking:  
Ex ia IIB T3 Gb  
Ta = -10°C to +45°C

Approved for issue on behalf of the IECEx  
Certification Body:

Dorin Stochitoiu P.Eng

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](#).

Certificate issued by:

**CSA International**  
178 Rexdale Boulevard  
Toronto, Ontario M9W 1R3  
Canada  
and  
1707 - 94th Street  
Edmonton, AB T6N 1E6  
Canada





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Manufacturer: **Martel Electronics Corp.**  
3 Corporate Park Drive  
Derry, NH 03038  
**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 electrical 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 : 2004** Electrical apparatus for explosive gas atmospheres - Part 0: General requirements

Edition:4.0

**IEC 60079-11 : 2006** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

Edition:5

*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/ExTR10.0016/00](#)

[CA/CSA/ExTR10.0016/01](#)

[CA/CSA/ExTR10.0016/02](#)

Quality Assessment Report:

[NL/DEK/QAR13.0026/01](#)



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## Schedule

### EQUIPMENT:

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

The Pressure Calibrators consist of a non metallic case, LED display and a keypad with either one or two pressure ports depending upon the model. All models use the same display, main circuit board and pressure sensors, the major differences are the external case configuration, the number of pressure ports and the internal programming.

The units are powered by 4 AA Alkaline batteries as approved below

Duracell MN1500

Rayovac 815

Panasonic AM3

Energizer E91

Entity parameters for the external 4-20mA jack are:

$U_i = 30V_{dc}$

$U_o = 7.14V_{dc}$

$I_i = 80mA$

$I_o = 1.12mA$

$P_i = 750mW$

$P_o = 2mW$

$C_i = 0\mu F$

$C_o = 240\mu F$

$L_i = 0\mu H$

$L_o = 1H$

### CONDITIONS OF CERTIFICATION: YES as shown below:

- Entity Parameters need to be adhered to when connecting external circuits to the 4-20mA input jacks.
- Batteries must only be changed in a non-hazardous area.
- DON'T MIX BATTERY MANUFACTURERS OR OLD WITH NEW BATTERIES.



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**EQUIPMENT (continued):**

Pressure calibrators, Models as follows:

Model 311A-Ex - one pressure port

Model 321A-Ex - two pressure ports

HPC-550 Ex - one pressure port

HPC-552 Ex - two pressure ports

Model 721 Ex - two pressure ports



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

Issue 0 – Original Certification of Pressure Calibrators; Models 311A-Ex, 321A-Ex, HPC-550 Ex, HPC-552 Ex

Issue 1 – Addition of the 721Ex Pressure Calibrator