



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.: **IECEx QPS 20.0013X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2021-02-02

Applicant: **CI Systems Ltd.**  
6 Hamechkar St.  
Migdal HaEmek 2306990  
Israel

Equipment: **Gas Clouds Detector, models: MetCam & MetCam WiFi**

Optional accessory: Sun/rain shield assembly P/N A1604800200; Pan tilt set P/N A1604800100

Type of Protection: **db, mb, ia**

Marking: MetCam or MetCam WiFi, Part Number: A1601xxabcx (a=0,1 b=2,3 c=0,4)  
Input Power: SELV/PELV 24 VDC (16 VDC min. / 32 VDC max.) ; 22 Watt max.  
IECEx QPS 20.0013X  
Ex db ia IIB+H2 T5 Gb ip54 (Model MetCam), or Ex db ia mb IIB+H2 T5 Gb ip54 (Model MetCam WiFi)  
-40 °C ≤ T<sub>amb</sub> ≤ +60 °C; IP66  
WARNING: DO NOT OPEN WHEN ENERGIZED!  
BEFORE EACH START-UP, CONSULT FIRST THE METCAM INSTRUCTION FOR USE MANUAL!

Approved for issue on behalf of the IECEx  
Certification Body:

**D, Adams P.Eng.**

Position:

**Manager, Hazardous Locations Department [Ex Equipment]**

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 [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**QPS  
Evaluation Services Inc.  
81 Kelfield St  
Unit 8  
Toronto, Ontario M9W 5A3  
Canada**





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Manufacturer: **CI Systems Ltd.**  
6 Hamechkar St.  
Migdal HaEmek 2306990  
**Israel**

Additional  
manufacturing  
locations:

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 equipment 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 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-1:2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

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

**IEC 60079-18:2014** Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"  
Edition:4.0

This Certificate **does not** indicate compliance with 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/QPS/ExTR20.0018/00](#)

Quality Assessment Report:

[CA/QPS/QAR21.0002/00](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Gas Cloud Detector, model MetCam and MetCam WiFi are fully integrated units capable of autonomously detecting methane and natural gas clouds that exceed safety levels and produce warnings.

The Gas Cloud Detector, model MetCam and MetCam WiFi is provide with accessories as follow:

- Tilt Mount (horizontal and/or vertical surface mount), P/N A1604800100;
- Sun/Rain Shield, P/N A1604800200.

List of P/N's (both models included) covered by this certificate:

Part Number	Description
<b>3/4" NPT Gland Entrance Models</b>	
A1601xx120x	Standard temperature range, w/o wifi, 3/4" NPT gland entrance
A1601xx124x	Standard temperature range, wifi, 3/4" NPT gland entrance
A1601xx130x	Extended temperature range, w/o wifi, 3/4" NPT gland entrance
A1601xx134x	Extended temperature range, wifi, 3/4" NPT gland entrance
<b>M25 Gland Entrance Models</b>	
A1601xx020x	Standard temperature range, w/o wifi, M25 gland entrance
A1601xx024x	Standard temperature range, wifi, M25 gland entrance
A1601xx030x	Extended temperature range, w/o wifi, M25 gland entrance
A1601xx034x	Extended temperature range, wifi, M25 gland entrance

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

1. No modifications may be made to the flamepaths.
2. Models MetCam and MetCam WiFi must be either connected to a SELV or PELV system, or directly connected to an apparatus compliant with IEC 60950 series, IEC 610101-1, or equivalent.
3. The cable gland must be properly selected to suit the final application of the equipment and/or to maintain the protection method marked thereon. They must provide adequate ingress protection of IP54 as a minimum, or an IP66 when it is necessary such for the final application of the equipment.
4. Only enclosure fasteners supplied by CI Systems Ltd. (grade 5 steel screws; yield strength equal to 110,000 psi or better) shall be applied.
5. Tightening torque values are defined for the following:
  - set of hexagonal head screws (21 screws in total) in the front plate flange joint: 3.4 Nm (30 lb-in);
  - blanking element / stopping plug by International Metal Engineering – Singapore, Model 89T20M; Ex d IIC; IECEx SIR 07.0082X (if used): 55 Nm (40.6 lb-ft).These torque values shall be checked during the equipment installation, as well as over the regular maintenance/service periods, and reapplied if necessary.
6. Lens guards must always be applied and they must be properly seated.
7. Only model of antenna and antenna coupler supplied by Ci Systems Ltd., as per manufacturer's documentation, shall be used.
8. Additional precautions and protection measures are necessary if the equipment is installed in a location of high risk of mechanical danger.