




EU Type Examination Certificate

Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

Manufacturer	CI Systems Ltd.
Address	6 Hamechkar St., Migdal HaEmek, Israel 2306990
Equipment	Gas Clouds Detector, Models MetCam & MetCam WiFi, A1601xxabcx Series
Markings	 II 2 G Ex db ia IIB+H2 T5 Gb IP54 (Model MetCam), or Ex db ia mb IIB+H2 T5 Gb IP54 (Model MetCam WiFi) Ta= -40 °C to +60 °C 24 VDC (16 VDC min. / 32 VDC max.) SELV OR PELV; 22 Watt max.
Description	The complete model nomenclature and description are given in ANNEX 1
Conditions of manufacture	<p>The following conditions are required of the manufacturing process for compliance with the certification.</p> <p>1. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.</p>
Special Conditions for Safe Use (Conditions of Certification)	<p>The following conditions relate to safe installation and/or use of the equipment.</p> <ol style="list-style-type: none">1. No modifications may be made to the flamepaths, and no user replaceable parts.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; tensile strength equal to 110,000 psi or better) shall be applied.5. Tightening torque values are defined for the following:<ul style="list-style-type: none">- 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.

Certificate Issue # 00
Certificate History Initial release
Associated Report ATX35743-2

The equipment is specified in the description of this certificate and the documents to which it refers.

QPS Europe BV, Berg en Dalseweg 122, 6522BW Nijmegen, Notified Body Number 2876, The Netherlands,, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use

This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacturer of the equipment or component and are separately certified.

Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

Standard	Edition
EN 60079-0	2018
EN 60079-1	2014
EN 60079-11	2012
EN 60079-18 + A1	2015 / 2017

The following documents describe the equipment defined in this certificate:
Issue 00


Drawing No	Sheets	Rev	date	Title
D1604130010NB_REV D	5	D	24/09/2020	METCAM REGULATION DRAWING
A1604870010	16	A	December 2020	CI-Systema – MetCam Technical Manual MetCam Models A160100xxx0 Instructions for Use Manual
G00001804NB	1	A	20/12/2020	NAMEPLATE, COMBINED ATEX IECEx NEC 500



Certificate Number
QPS 20ATEX1004X

D1601006010	46	B	16/12/2018	Intrinsically Safety schematic and layout description
-	-	-	-	GAS Camera Carrier Board
-	-	-	-	Gerber files of D1605550100 (F)
D1605550100	20	F	27.03.2018	Electronic schematics

Issued By: Rob Kohuch, P.Eng.

Signature:  Date: February 4, 2021



ANNEX

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

Part Number	Description
<i>3/4" NPT Gland Entrance Models</i>	
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
<i>M25 Gland Entrance Models</i>	
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