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

Certificate No.: **IECEx CML 14.0032**

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Certificate history:
Issue 2 (2020-12-23)
Issue 1 (2019-10-17)
Issue 0 (2014-12-18)

Status: **Current**

Issue No: 3

Date of Issue: 2026-01-23

Applicant: **Calex Electronics Ltd**
Leedon House
Billington Road
Leighton Buzzard
Bedfordshire
LU7 4TN
United Kingdom

Equipment: **ExTemp Infrared Temperature Transmitter**

Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: Ex ia IIC T4 Ga
Ex ia IIIC T135°C IP65 Da

-20°C ≤ Ta ≤ +70°C

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

Position: **Assistant Certification Manager**

Signature: (for printed version)

Date: 23 Jan 2026
(for printed version)

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 or use of this QR Code.

Certificate issued by:

Eurofins E&E CML Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom

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Manufacturer: **Calex Electronics Ltd**
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Manufacturing locations: **Calex Electronics Ltd**
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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 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

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 Reports:

GB/CML/ExTR14.0036/00 GB/CML/ExTR19.0187/00 GB/CML/ExTR20.0201/00
GB/CML/ExTR25.0278/00

Quality Assessment Report:

GB/CML/QAR14.0001/07

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The ExTemp is a series of intrinsically safe two-wire infra-red temperature sensors. The two wires are used for both the 4-20mA power/ analogue output and digital communication for configuration of settings such as emissivity.

See Certificate Annex for full description and Conditions of Manufacture

SPECIFIC CONDITIONS OF USE: NO

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Issue 1
This issue introduced the following modification:

1. Minor drawing changes.

Issue 2
This issue introduced the following modifications:

1. Update to the latest standards.
2. Removal of IEC 60079-26.
3. Minor label drawing change.

Issue 3
This issue introduced the following modifications:

1. Introduction of a new option of lens material and changes to the general assembly drawing.
2. Additional information relating to PCB copper thickness has been added to the drawings.
3. Change to the specification of a non-safety related component.

Annex:

Certificate Annex IECEx CML 14.0032 Iss 3.pdf

Annexe to:	IECEx CML 14.0032, Issue 3
Apparatus:	Ex Temp Series Infrared Temperature Sensor
Applicant:	Calex Electronics Ltd

Description

The ExTemp is a series of intrinsically safe two-wire infra-red temperature sensors. The two wires are used for both the 4-20mA power/analogue output and digital communication for configuration of settings such as emissivity.

The device consists of a PCB assembly housed in a cylindrical stainless-steel enclosure of IP65 rating. The enclosure incorporates a lens at one end behind which is located an infra-red thermopile mounted on a daughter PCB. The permanently attached cable of up to 25m length exits through a cable gland at the other end of the enclosure.

The ExTemp Series (alternatively known as OSAT Series) is supplied in a number of configurations defined by the model number,

EX-FFF-TT-C-LL-XXX or OSAT-FFF-TT-C-LL-XXX

where

FFF	=	Field of view
TT	=	Measurement temperature range
C	=	Configurable
LL	=	Cable length
XXX	=	Other options

There are no differences between models prefixed with ‘EX-‘ or ‘OSAT-‘.

The equipment has the following safety description:

Ui	=	28V
Ii	=	93mA
Pi	=	0.651W
Ci	=	8nF
Li	=	0

Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

i. Where the product incorporates certified parts or safety critical components, the manufacturer of the product defined on this certificate shall continually monitor these parts/components for any modifications introduced by the manufacturer(s) of these constituent parts. If the manufacturer of any constituent part introduces any changes which affect the compliance of the certified product that is the subject of this certificate, the manufacturer is required to have this certificate updated.

ii. Production units must be capable of meeting the dielectric strength requirement of IEC 60079-11:2011, Clause 6.3.13.

Specific Conditions of Use

None.

Components used which are covered by Ex Certificates issued to older editions of Standards

None.

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