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

Certificate No.:	IECEx CML 14.0032	Issue No: 0	Certificate history: Issue No. 0 (2014-12-18)
Status:	**Current**	Page 1 of 3	
Date of Issue:	**2014-12-18**		

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

Electrical Apparatus: **ExTemp Infrared Temperature Transmitter**

Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking:

Ex ia IIC T4 Ga
Ex ia IIIC T135°C Da
IP65
(-20°C≤Ta+70°C)

Approved for issue on behalf of the IECEx Certification Body: M D Shearman FInstMC

Position: Managing Director

Signature:
(for printed version)

Date: 18/12/2014

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:

Certification Management 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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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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-26 : 2006 Edition:2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga

*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:

GB/CML/ExTR14.0036/00

Quality Assessment Report:

GB/CML/QAR14.0001/00

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Schedule

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 Annex for full description and Conditions of Manufacture

CONDITIONS OF CERTIFICATION: NO

Annex:

Certificate Annex IECEx CML 14_0032.pdf

Annexe to:	IECEx CML 14.0032 Issue 0
Applicant:	Calex Electronics Ltd
Apparatus:	ExTemp Infrared Temperature Transmitter

Description of Equipment

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 are conditions of manufacture

i. 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.

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

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