

15.6 ATEX Certificate of Conformity



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **CSANE 20ATEX2254** Issue: **0**

4 Equipment: **Smart Integrated Infrared Sensors/Thermalert T4.0**

5 Applicant: **Fluke Process Instruments GmbH**

6 Address: Blankenburger Straße 135
13127 Berlin
Germany

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 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.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN IEC 60079-0:2018 EN 60079-11:2012

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2G
Ex ib IIC T4 Gb
-20°C ≤ Ta ≤ +80°C



II 2D
Ex ib IIIC T135°C Db
-20°C ≤ Ta ≤ +80°C

Project Number 80075135

Signed: J A May

Title: Director of Operations

CSA Group Netherlands B.V.
Utrechtseweg 310, Building B42,
6812AR Arnhem, The Netherlands

Page 1 of 2

DQD 544.09

Rev 2020-10-23 This certificate and its schedules may only be reproduced in its entirety and without change



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

CSANE 20ATEX2254
Issue 0

13 DESCRIPTION OF EQUIPMENT

Thermalert 4.0 series Smart Integrated Infrared Sensors are used for temperature measurement and they have many different spectral responses to be capable of covering a broad range of applications such as metal, glass and plastics. They are intended to be powered by an approved IS safety barrier and use Hart for communication.

The smart integrated Infrared Sensors are comprised of a stainless-steel housing that houses two PCBs, a terminal block and a temperature sensor.

The entity parameters are:

Ui= 27V, Ii= 100mA, Pi=0.63W, Li=21.6μH, Ci=0μF

The thermalert 4.0 series utilizes a configurator style model coding system as defined below:

T40	-	AB	-	CD	-	EFG	-	6	-	IS
Thermalert 4.0		Stands for spectral (μm)		Stands for optics D:S		Stands for focus distance (mm)		Stands for interface: HART		Intrinsic safety

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	22 June 2021	R80075135A	The release of the prime certificate.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

None

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 CONDITIONS OF MANUFACTURE

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira/CSA Certificates.

17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.

CSA Group Netherlands B.V.
Utrechtseweg 310, Building B42,
6812AR Arnhem, The Netherlands


Page 2 of 2

DQD 544.09

Rev 2020-10-23 This certificate and its schedules may only be reproduced in its entirety and without change

15.7 IECEx Certificate of Conformity

		<h1>IECEx Certificate of Conformity</h1>	
<p align="center">INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres for rules and details of the IECEx Scheme visit www.iecex.com</p>			
Certificate No.:	IECEx SIR 20.0047	Page 1 of 3	Certificate history
Status:	Current	Issue No: 0	
Date of Issue:	2021-03-05		
Applicant:	Fluke Process Instruments GmbH Blankenburger Straße 135 Berlin 13127 Germany		
Equipment:	Smart Integrated Infrared Sensors/Thermalert 4.0		
Optional accessory:			
Type of Protection:	Intrinsically Safe ib		
Marking:	Ex ib IIC T4 Gb Ex ib IIIC T135°C Db Ta -20°C≤Ta≤+60°C		
Approved for issue on behalf of the IECEx Certification Body:		Neil Jones	
Position:		Certification Manager	
Signature: (for printed version)		<hr/>	
Date:		<hr/>	
<p>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.</p>			
Certificate issued by: SIRA Certification Service CSA Group Unit 6, Hawarden Industrial Park Hawarden, Deeside, CH5 3US United Kingdom			

		IECEX Certificate of Conformity
Certificate No.:	IECEX SIR 20.0047	Page 2 of 3
Date of issue:	2021-03-05	Issue No: 0
Manufacturer:	Fluke Process Instruments GmbH Blankenburger Straße 135 Berlin 13127 Germany	
Additional manufacturing locations:		
<p>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</p>		
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 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements	
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "I"	
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: GB/SIR/ExTR21.0040/00		
Quality Assessment Report: DE/EPS/QAR15.0003/07		

		<h2 style="text-align: center;">IECEX Certificate of Conformity</h2>	
Certificate No.:	IECEX SIR 20.0047	Page 3 of 3	
Date of issue:	2021-03-05	Issue No: 0	
<p>EQUIPMENT: Equipment and systems covered by this Certificate are as follows:</p> <p>Thermalert 4.0 series Smart Integrated Infrared Sensors are used for temperature measurement and they have many different spectral responses to be capable of covering a broad range of applications such as metal, glass and plastics. They are intended to be powered by an approved IS safety barrier and use Hart for communication.</p> <p>The smart integrated Infrared Sensors are comprised of a stainless steel housing that houses two PCBs, a terminal block and a temperature sensor.</p> <p>The entity parameters are:</p> <p>Ui= 27V, Ii= 100mA, Pi=0.63W, Li=21.6μH, Ci=0μF</p> <p>Refer to the Annexe for the configurator style model coding system</p>			
<p>SPECIFIC CONDITIONS OF USE: NO</p>			
<p>Annex:</p> <p>IECEX SIR 20.0047 Annexe Issue 0.pdf</p>			

Annexe to: IECEx SIR 20.0047 Issue 0
Applicant: Fluke Process Instruments GmbH
Apparatus: Smart Integrated Infrared Sensors/Thermalert 4.0



Thermalert 4.0 series Smart Integrated Infrared Sensors are used for temperature measurement and they have many different spectral responses to be capable of covering a broad range of applications such as metal, glass and plastics. They are intended to be powered by an approved IS safety barrier and use Hart for communication.

The smart integrated Infrared Sensors are comprised of a stainless steel housing that houses two PCBs, a terminal block and a temperature sensor.

The entity parameters are:

Ui= 27V, Ii= 100mA, Pi=0.63W, Li=21.6μH, Ci=0μF

The thermalert 4.0 series utilizes a configurator style model coding system as defined below:

T40	-	AB	-	CD	-	EFG	-	6	-	IS
Thermalert 4.0		Stands for spectral (μm)		Stands for optics D:S		Stands for focus distance (mm)		Stands for interface: HART		Intrinsic safety

Date: 05 March 2021

Page 1 of 1

Form 9530 Issue 1

Sira Certification Service

Unit 6 Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom

Tel: +44 (0) 1244 670900
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org