



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 SIR 17.0057X

Issue No: 0

Certificate history:

Issue No. 0 (2017-11-08)

Status: **Current**

Page 1 of 3

Date of Issue: **2017-11-08**

Applicant: **Delta Controls Corporation**
585 Fortson St.
Shreveport
Louisiana 71107
United States of America

Equipment: **HIR-A Pyrometer Temperature Transmitter**

Optional accessory:

Type of Protection: **Flameproof**

Marking:

Ex db IIB+H2 T6 Gb
Ta = -20°C to +70°C

IP65

Approved for issue on behalf of the IECEx
Certification Body:

C Ellaby

Position:

Deputy Certification Manager

Signature:

(for printed version)



2017-11-08

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

SIRA Certification Service
CSA Group
Unit 6, Hawarden Industrial Park
Hawarden, Deeside, CH5 3US
United Kingdom

sira
CERTIFICATION





IECEX Certificate of Conformity

Certificate No: IECEx SIR 17.0057X Issue No: 0
Date of Issue: 2017-11-08 Page 2 of 3
Manufacturer: **Delta Controls Corporation**
585 Fortson St.
Shreveport
Louisiana 71107
United States of America

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 Explosive atmospheres - Part 0: General requirements
Edition:6.0

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

*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/SIR/ExTR17.0214/00](#)

Quality Assessment Report:

[GB/SIR/QAR17.0014/00](#)





IECEx Certificate of Conformity

Certificate No: IECEx SIR 17.0057X

Issue No: 0

Date of Issue: 2017-11-08

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Pyrometer Temperature Transmitter is designed for measurement of temperature via infrared means. The flameproof enclosure is made of 356 cast aluminium or 304, 316, 316L stainless steel. The cover incorporates a window cemented in place. The enclosure houses a HIR-A Input and Output terminal block, Pushbutton switches, LCD display, a connector and a sealed electronic module which comprises 13-24V electronics components such as resistors, capacitors, transistors and diodes.

Two threaded cable entries are provided in the base of the enclosure. One is for a ½" NPT or M20 cable entry hole which is fitted with an adaptor for the accommodation of a fiber optical cable. The second cable entry hole is ¾" NPT or 1/2" NPT or 1" NPT or M20 or M25 for the accommodation of a suitable certified cable entry device. The equipment is provided with internal and external earth facilities. The model is provided with mounting arrangements which comprises a mounting plate which is secured by 4 screws. The plate has 2 pipe clamps.

The equipment is associated with the non-electrical items; a lens fixture and a steam chamber which do not fall within the scope of this certification.

Refer to the Annexe for the model codes

SPECIFIC CONDITIONS OF USE: YES as shown below:

- i. Flamepath joints are not intended to be repaired.

Annex:

[IECEx SIR 17.0057X Iss 0 Annexe.pdf](#)

Annexe to: IECEx SIR 17.0057X Issue 0

Applicant: Delta Controls Corporation

Apparatus: HIR-A Pyrometer Temperature Transmitter



The model numbers are formatted:

HIR-A	F	7B	10'	3"/150RF	AA	Typical Model Number
--------------	----------	-----------	------------	-----------------	-----------	-----------------------------

The various options are shown below:

HIR-A	Pyrometer Temperature Transmitter					
	F	Sensing Range				
	C	800°C to 1700°C				
	D	300°C to 1700°C				
	F	800°C to 1700°C (Two Color) Down to 300°C (single color)				
	7B	Housing Rating				
	7B	Flameproof EX db IIB+H ₂ T6 IP65				
		10'	Cable length			
		10'	10 feet fiber optic cable			
			3"/150RF	Mounting Nozzle		
			3"/150 RF	3" 150# R.F ANSI		
			2"/150 RF	2" 150# R.F ANSI		
			3"/300 RF	3" 300# R.F ANSI		
			2"/300 RF	2" 300# R.F ANSI		
			ZZ	Other, DIN, JIS, etc		
				AA	Options	
				AA	None	
				RS	Remote Sensor	
				ZZ	Special	