



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 ETL 18.0022X** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 2 [Issue 1 \(2022-06-16\)](#)
[Issue 0 \(2018-06-27\)](#)
Date of Issue: 2023-06-21
Applicant: **GP:50**
2770 Long Road
Grand Island, NY 14072
United States of America
Equipment: **Series of Pressure and Temperature Transducers**
Optional accessory:
Type of Protection: **Flameproof 'db'**
Marking: Ex db IIC T4 to T6 Gb
Tamb: -40°C to 76°C
IECEX ETL 18.0022X

Approved for issue on behalf of the IECEx
Certification Body:

Kevin J. Wolf

Position:

Certification Officer

Signature:
(for printed version)

Date:
(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:

Intertek
3933 US Route 11 South
Cortland NY 13045-2995
United States of America

intertek



IECEX Certificate of Conformity

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Page 2 of 4

Date of issue: 2023-06-21

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Manufacturer: **GP:50**
2770 Long Road
Grand Island, NY 14072
United States of America

Manufacturing
locations:

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 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

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:

[US/ETL/ExTR18.0030/00](#)

[US/ETL/ExTR18.0030/01](#)

[US/ETL/ExTR18.0030/02](#)

Quality Assessment Report:

[NO/PRE/QAR15.0011/04](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX ETL 18.0022X**

Page 3 of 4

Date of issue: 2023-06-21

Issue No: 2

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

A series of pressure and temperature transducers housed in a stainless steel tubular enclosure. The process side is hermetically sealed with GTAW or LASER welded joints. The connection side is epoxy sealed and supplied with 18awg MTW wire flying leads or 18awg PVC insulated cable.

See Annex for model/part number designations and temperature ratings

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Flamepaths are not intended to be repaired.



IECEX Certificate of Conformity

Certificate No.: **IECEX ETL 18.0022X**

Page 4 of 4

Date of issue: 2023-06-21

Issue No: 2

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Change Markings: ATEX NB # From 2575 to 2460 and Add UKCA #: 8501

Annex:

[SFT-IECEX-OP-19f - Annex for IECEx Certificate of Conformity.pdf](#)



Annex to IECEx Certificate of Conformity

Certificate No:	IECEX ETL 18.0022X	Issue No. 2
Annex No. 1		

Technical Documents			
Title:	Drawing No.:	Rev. Level:	Date:
Approval Summary Document ATEX/IECEX Flameproof Approval Ø1.00 Housing Can Enclosures (XP10)	A8AD-XP10.00	A	6/17/2022
*Approval Summary Document ATEX/IECEX Flameproof Approval Ø1.00 Housing Can Enclosures (XP10)	A8AD-XP10.00	B	1/12/2023

*Note: An * is included before the title of documents that are new or revised.*

IECEX Certified Components on Which Conformance Depends					
Item	Description	Manufacturer	Type	Certificate No. / Standards*	Coding / Ratings
1	Probe Enclosure	International Metal Engineering Pte Ltd	1080WL/SL	IECEX SIR 10.0132X IEC 60079-0: 2011* IEC 60079-1: 2007*	Ex d IIC T6 Gb -40°C to +70°C
IECEX SIR 10.0132X Conditions of Use: <ul style="list-style-type: none"> • Condition: 96, 98 and 99 Series only: To meet the requirements of IEC 60079-31 and IEC 60529 for degree of protection IP68, the user shall ensure the probe end of the union nipple shall be threaded into a protection tube such as a thermowell to maintain the degree of protection IP68. <ul style="list-style-type: none"> ○ Response: Overall certification does not provide an IP rating for Ex d compliance. 					

Specific Conditions of Use
<ul style="list-style-type: none"> • Flamepaths are not intended to be repaired.

Required Manufacturer Routine Testing
1. Welded joints shall be routine tested per the requirements of IEC 60079-1, Clause 16.3 with a minimum overpressure of 1,302kPa for no less than 10 seconds. Batch testing per ISO 2859-1 is permitted. Equipment shall meet the acceptance criteria laid out in clause 16.5 of IEC 60079-1:2014. Alternate routine non-destructive testing can also be employed per one of the following ISO methods <ol style="list-style-type: none"> a. radiographic weld inspection; or b. ultrasonic weld inspection; or c. magnetic particle weld inspection; or d. liquid penetrant weld inspection

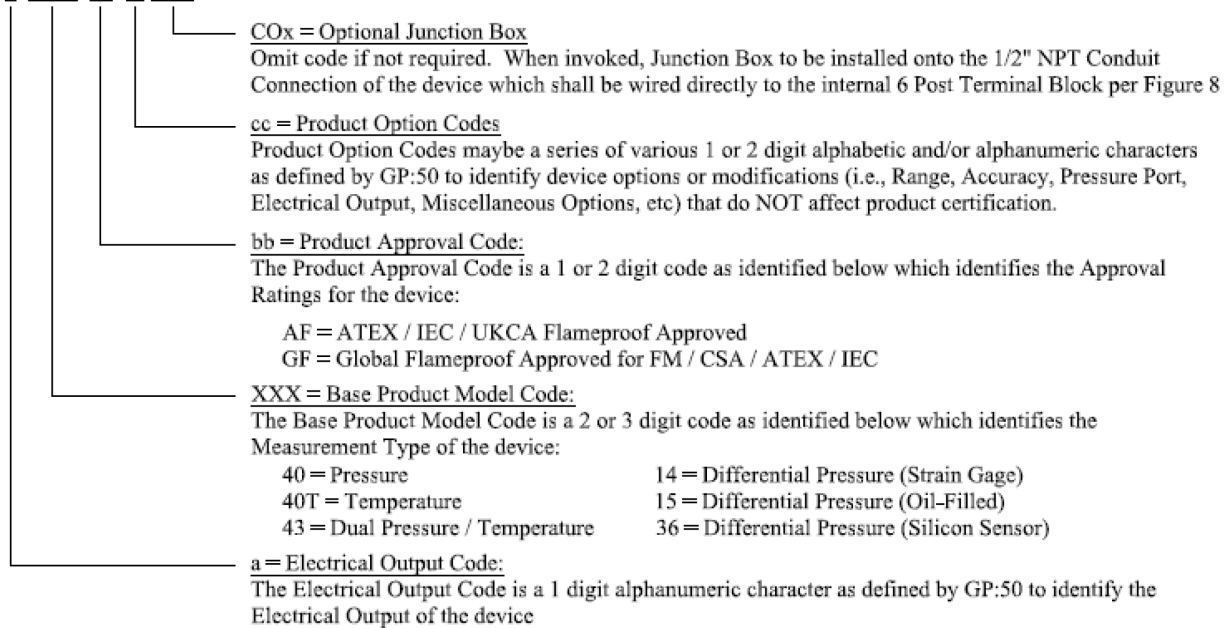


Annex to IECEx Certificate of Conformity

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Annex No. 1		

Model / Part Number Designation:

a XXX bb cc COx



Maximum Allowed Surface Temperature Rating:

Figure 6 provides a general depiction of a device installed into a typical vessel. In some applications, Process Temperatures may be significantly higher than Ambient Temperatures. This may cause the surface temperature of the device (in particular the Pressure Port region of the device) to become very HOT. To ensure the Maximum Allowed Surface Temperature Ratings (i.e., T6, T5 and T4) are maintained, the chart below identifies the maximum allowed Process Temperature (T_p) that the device can be safely used with based upon the surrounding Ambient Temperature (T_a) of where the device is installed.

Maximum Ambient Temperature (T_a)	Maximum Allowed Process Temperature (T_p) per desired Temperature Class Rating		
	T6 = 85°C [185°F]	T5 = 100°C [212°F]	T4 = 135°C [275°F]
$T_a = 20^\circ\text{C}$ [68°F]	96°C	105°C	155°C
$T_a > 20^\circ\text{C}$ [68°F]	96°C - ($T_a - 20^\circ\text{C}$) $T_a, \text{max} = 76^\circ\text{C}$ [169°F]	105°C - ($T_a - 20^\circ\text{C}$) $T_a, \text{max} = 73^\circ\text{C}$ [163°F]	155°C - ($T_a - 20^\circ\text{C}$) $T_a, \text{max} = 70^\circ\text{C}$ [158°F]