



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 17.0030X** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 2 [Issue 1 \(2020-09-29\)](#)
[Issue 0 \(2017-09-11\)](#)
Date of Issue: 2022-08-30
Applicant: **Teledyne Analytical Instruments**
16830 Chestnut Street, City Of Industry, CA 91748
United States of America
Equipment: **Model LXT380 Universal Transmitter**
Optional accessory:
Type of Protection: **Flameproof 'db', Encapsulation, 'mb', intrinsic safety 'ia'**
Marking: Ex db mb [ia IIC Ga] IIC T4 Gb – For Main Flameproof Enclosure
Ex ia IIC T4 Ga – For Sensor Assembly
LXT380 Housing : -20°C < Ta < +55°C
SP3X Sensor : -20°C < Ta < +85°C
IECEX ETL 17.0030X

Approved for issue on behalf of the IECEx
Certification Body:

Todd Relyea

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



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Manufacturer: **Teledyne Analytical Instruments**
16830 Chestnut Street, City Of Industry, CA 91748
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](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

[IEC 60079-18:2017](#) Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

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/ExTR17.0071/00](#)

[US/ETL/ExTR17.0071/01](#)

[US/ETL/ExTR17.0071/02](#)

Quality Assessment Report:

[GB/BAS/QAR12.0008/07](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Model LXT380 transmitter is a single or dual channel, intelligent, multi-parameter transmitter designed for the online continuous measurement of pH, ORP, pION, dissolved oxygen, conductivity, resistivity and turbidity in a hazardous industrial environment.

The Model LXT-380 transmitter can be loop powered, 24 VDC powered or 100-240 VAC line powered. The standard configuration has a 4-20 mA output and a RS485 serial communication port with MODBUS®RTU output. A HART® communication version (single channel version only) is also available. Alarm relays are optionally available on either line powered transmitter.

Transmitter consists of a flameproof enclosure that holds the electronics with a barrier gland for a seal for the IS outputs. The enclosure has two other openings, one that is to be supplied by the manufacture with a certified blanking plug and the other which is to be supplied by the end user with a suitably rated cable gland or seal for the electrical connection.

SP3X Sensor Type:

mV Input Sensor per document (BOM) 2801900-1

DO Input Sensor per document (BOM) 2801900-2

Free Chlorine Sensor per document (BOM) 2801900-3

mV Diag Sensor per document (BOM) 2801900-4

Free CLO2 Sensor per document (BOM) 2801900-5

Conductivity Sensor per document (BOM) 2801910-1

Resistivity Sensor per document (BOM) 2801915-1

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The end user is responsible for providing a suitably rated cable gland/seal for the electrical connection and remaining openings to the flameproof enclosure.
- The end user should ensure that the equipment is not installed in a location where it may be subjected to external conditions (such as high-pressure steam) which might cause a build-up of electrostatic charges on non-conducting surfaces. Additionally, cleaning of the equipment should be done only with a damp cloth.
- Flame-paths are not intended to be modified.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

1. Update Standards
2. Update Markings / Instructions (Change ATEX NB #)

Annex:

[IECEX ETL 17.0030X_002_SFT-IECEX-OP-19f - Annex for IECEx Certificate of Conformity.pdf](#)



Annex to IECEx Certificate of Conformity

Certificate No:	IECEx ETL 17.0030X	Issue No. 2
Annex No. 1		

Technical Documents

Title:	Drawing No.:	Rev. Level:	Date:
Final Assembly Model LXT-380	T1100000	C	05/10/2017
Control Drawing LXT-380 ATEX/IECEx (3 shts)	T1700004	E	09/23/2020
PCB SENSOR ASSY SMT MV INPUT	2801900-1	F	08/23/2017
PCB SENSOR ASSY SMT DO INPUT	2801900-2	F	08/23/2017
PCB SENSOR ASSY SMT FREE CHLORINE	2801900-3	E	08/23/2017
PCB SENSOR ASSY SMT MV DIAG	2801900-4	D	08/23/2017
PCB SENSOR ASSY SMT CLO2	2801900-5	D	08/23/2017
PCB SENSOR ASSY SMT CONDUCTIVITY	2801910-1	E	09/15/2020
PCB SENSOR ASSY SMT RESISTIVITY	2801915-1	E	09/15/2020
SENSOR, mV INPUT, DIGITAL OUTPUT	1801900	E	07/19/2017
SENSOR, CONTACTING CONDUCTIVITY	1801910	C	07/19/2017
Schematic, X80Display Board	1800200	B	17MAR15
Schematic, X80 Sensor Board	1800210	D	24OCT16
Schematic, X80Relay/Conn. Board	1800240	B	17MAR15
LABEL LXT-380 ATEX APPROVAL	T9240021	E	09/01/2017
STENCIL SP3X SENSOR ATEX/CE APPROVALS	T9240410	B	09/01/2017
STENCIL SP3X SENSOR ATEX/CE TELEDYNE	T9240411	A	12/07/2016
APPENDIX X HAZARDOUS LOCATION INFORMATION	T4100001.X	E	09/16/2020
*LABEL LXT-380 ATEX APPROVAL	T9240021	F	5/31/2022
STENCIL SP3X SENSOR ATEX/CE APPROVALS	T9240410	C	5/31/2022
*APPENDIX X HAZARDOUS LOCATION INFORMATION	T4100001.X	F	3/29/2022

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