

# EU-Type Examination Certificate



1. **EU-TYPE EXAMINATION CERTIFICATE**
2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU**
3. **EU-Type Examination Certificate Number: ITS17ATEX101945X Issue 0**
4. **Product:** Universal Transmitter
5. **Manufacturer:** Teledyne Analytical Instruments
6. **Address:** 16830 Chestnut Street  
City of Industry, CA 91748  
USA
7. This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
8. Intertek Testing and Certification Limited, Notified Body number 0359 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council dated 26 February 2014, certifies that the product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.  
  
The examination and test results are recorded in confidential Intertek Reports 102787868CRT-012, 102787868CRT-002, 102787868CRT-003, 102787868CRT-004, 102787868CRT-005, 102787868CRT-006, 102787868CRT-007, 102787868CRT-008, 102787868CRT-009, 102787868CRT-010, and 102787868CRT-011 dated 2017-09-19
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012+A11:2013, EN 60079-1: 2014, EN 60079-11:2012 and EN 60079-18:2015 except in respect of those requirements referred to at item 16 of the Schedule.
10. If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Safe Use specified in the Schedule to this certificate.
11. This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
12. The marking of the product shall include the following:



II 2 G Ex db mb [ia IIC Ga] IIC T4 Gb – For Main Flameproof Enclosure

II 2 G Ex ia IIC T4 Ga – For Sensor Assembly

LXT380 Housing : -20°C < Ta < +55°C

SP3X Sensor : -20°C < Ta < +85°C

**TODD L. RELYEA**  
Certification Officer  
15 SEPT 2017

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## SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE NUMBER ITS17ATEX101945X – Issue 0

### 13. Description of Equipment or Protective System

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 LXT380 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

See below for details of the certified components supplied by the manufacture.

### 14. Report Number

Intertek Reports 102787868CRT-012, 102787868CRT-002, 102787868CRT-003, 102787868CRT-004, 102787868CRT-005, 102787868CRT-006, 102787868CRT-007, 102787868CRT-008, 102787868CRT-009, 102787868CRT-010, and 102787868CRT-011 dated 2017-09-19.

### 15. Special Conditions of Certification

#### (a). Specific Conditions of Safe Use

- The end user is responsible for providing a suitably rated cable gland/seal for the electrical connection 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.

#### (b). Conditions of Manufacture - Routine Tests

- None

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## SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE NUMBER ITS17ATEX101945X – Issue 0

Technical Documents			
Title:	Drawing No.:	Rev. Level:	Date:
Final Assembly Model LXT-380	T1100000	C	05/10/2017
Control Drawing LXT-380 ATEX/IECEX	T1700004	E	09/05/2017
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	D	08/23/2017
PCB SENSOR ASSY SMT RESISTIVITY	2801915-1	D	08/23/2017
SENSOR, mV INPUT, DIGITAL OUTPUT	1801900	E	07/19/2017
SENSOR, CONTACTING CONDUCTIVITY	1801910	C	07/19/2017
Schematic, X80 Display Board	1800200	B	17MAR15
Schematic, X80 Sensor Board	1800210	D	24OCT16
Schematic, X80 Relay/Conn. Board	1800240	B	17MAR15
LABEL LXT-380 ATEX APPROVAL	T9240021	E	09/07/2017
STENCIL SP3X SENSOR ATEX/CE APPROVALS	T9240410	B	09/07/2017
STENCIL SP3X SENSOR ATEX/CE TELEDYNE	T9240411	A	12/07/2016
MODEL LXT-380 INSTRUCTION MANUAL	T4100001	D	09/07/2017
APPENDIX X HAZARDOUS LOCATION INFORMATION	T4100001.X	D	09/07/2017