EU-TYPE EXAMINATION

CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

1. **EU-Type Examination Certificate Number:** ETL22ATEX0240X Issue 00
2. **Product:** JLTX Transmitter and JLSX Sensor
3. **Manufacturer:** JCT Analysentechnik
4. **Address:** Werner-Heisenberg-Straße 4, 2700 Wiener Neustadt, Austria
5. This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
6. Intertek Testing Services NA Ltd., Notified Body number 2903 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 of the Directive.
7. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0: 2018, EN 60079-1: 2014, and EN 60079-11:2012 and EN 60079 18: 2015+A1:2017 except in respect of those requirements referred to within item 14 of the Schedule.
8. If the sign “X” is placed after the certificate number, it indicates that the product is subject to the special conditions of use specified in the Schedule to this certificate.
9. 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.
10. 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 1 G Ex ia IIC T4 Ga – For Sensor Assembly
Tamb: -20°C < Ta < +55°C (JLTX Housing)
-20°C < Ta < +85°C (JLSX Sensor)

Certification Officer: Todd L. Relyea **Date:** 23 March 2023

SCHEDULE:

EU-Type Examination Certificate Number: ETL22ATEX0240X Issue 00

11. Description of Equipment or Protective System

The Model JLTX 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 JLTX transmitter can be loop powered, 24 VDC 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.

JLSX 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

CE Marking shall be accompanied by the identification number of the Notified Body responsible for surveillance of production.

12. Report Number

Intertek Report: 104947436DAL-001 Dated 14 November 2022.

13. Special Conditions of Certification

(a). Special Conditions of Use

- 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.

(b). Conditions of Manufacture - Routine Tests

- N/A

SCHEDULE:

EU-Type Examination Certificate Number: ETL22ATEX0240X Issue 00

14. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report: 104947436DAL-002 Dated 14 November 2022.

15. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
Final Assembly Model X80	1100000	C	05/10/2017
Control Drawing X80 ATEX/IECEx (3 shts)	1700004	F	09/23/2020
Model X80 Hazloc Appendix	4100001.X	F	09/16/2020
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, X80 Display Board	1800200	B	17MAR15
Schematic, X80 Sensor Board	1800210	D	24OCT16
Schematic, X80Relay/Conn. Board	1800240	B	17MAR15
STENCIL S88 SENSOR ATEX/CE APPROVALS	9240410	B	06/29/2017
STENCIL, S88 SENSOR ATEX/IECEx	92404411	A	12/07/2016
Label JLTX ATEX Approval SS	J9240021	A	02/24/2022