

EU TYPE-EXAMINATION CERTIFICATE

1. EU type-examination Certificate (Module B)
2. Equipment or Protective System intended for use in potentially explosive atmospheres (Directive 2014/34/EU)



3. EU type examination certificate Nr **ITS-I21ATEX28848X**

4. **Product:** JMT MAGNETOSTRICTIVE TRANSMITTER

5. **Manufacturer:** CLARK-RELIANCE CORPORATION **Applicant:** CLARK-RELIANCE CORPORATION

6. **Address:** 16633 Foltz Pkwy; Strongsville, OH 44149-5513; USA **Address:** 16633 Foltz Pkwy; Strongsville, OH 44149-5513; USA

7. This product and any acceptable variation thereto are specified in the schedule to this certificate and therein referred to.
8. INTERTEK ITALIA S.p.A., Notified Body n° 2575 in accordance with article 17 of the Directive 2014/34/EU of the European Parliament and Council of the 26 February 2014, certifies that the equipment or protective system has been found to comply with the essential Health and Safety Requirements relating to the design and construction of equipment and protective system intended for use in potentially explosive atmosphere, given in Annex II of the Directive.
The examination and tests results are recorded in confidential technical evaluation Intertek Report Nr. 104028124CRT-007A dated 18 February 2021
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018 and EN 60079-1:2014 and EN 60079-11:2012 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 Special Conditions for 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 ia IIB T4 Gb
Tamb: -40°C to +60°C

Certificate issue date

22 March 2021



Fabrizio Massei
Certification Officer
Intertek Italia S.p.A. (NB 2575)



PDR N° 277B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements



This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

Intertek Italia S.p.A. Via Miglioli, 2/A - 20063 Cernusco sul Naviglio, Milano - Italy



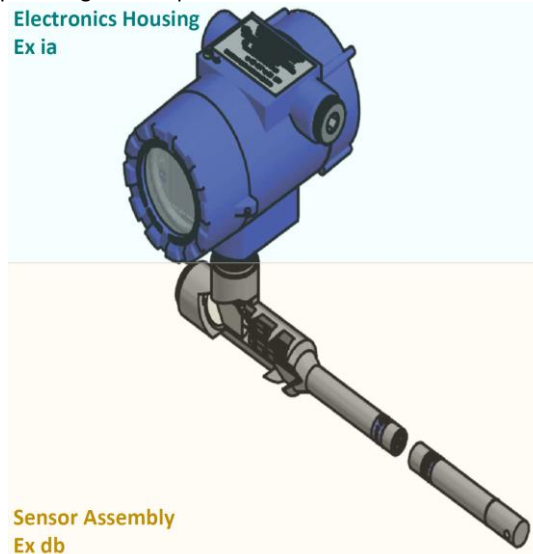
SCHEDULE

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13. DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM

The product is a 4-20 mA, loop-powered HART® compatible level transmitter intended to be used in conjunction with a magnetic liquid level gage. It provides an analog output of level and the HART® digital protocol. Outputs can be monitored using 4-20 mA signal output, a HART® device (hand-held or PC-compatible software), the integral display, or all of the above.

The product/assembly has two (2) main sub-assemblies: the Electronics Housing and the Sensor Assembly. The Sensor Assembly includes a potted bushing in the threaded fitting providing Ex db separation between the Sensor Assembly and the Electronics Housing.



The Electronics Housing has two sides (compartments): terminal enclosure side/compartment and the electronics side/compartment. The two sides/compartments are separated by a potted bushing.



The electronics side/compartment uses Type of Protection Ex ia even though the Electronics Housing is an Ex db enclosure. The other side, terminal enclosure side/compartment, also uses Type of Protection Ex ia even though the Terminal Housing is an Ex db enclosure. This use of Ex ia is to permit removal of the covers from the electronics side/compartment and/or the terminal enclosure side/compartment while circuits are energized.

The complete product assembly (Electronics Housing and the Sensor Assembly) is to be installed using a field selected Certified Isolating Barrier providing two-wire Ex ia supply/signal as well as the necessary external conduit seals and or cable glands. There are included blocking/limiting circuitry inside the Ex db portion such that the energy available to the Ex ia portion is adequately limited and or suppressed.

In summary, there is one (1) separate Ex db enclosure: Sensor Assembly and two Ex ia enclosure sides/compartments (using Ex db covered sides/compartments) which are separated by potted bushings between each side/compartment.

The Ex db portions of the product are covered under certification ITS19ATEX14921X Issue 01 (IECEx ETL 19.0030X).

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



SCHEDULE

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14. DRAWINGS AND DOCUMENTS

TITLE	DOCUMENT Nr	LEVEL	DATE
ASSEMBLY: GAGE-MOUNT: JMT: INTRINSICALLY SAFE	A-35152-IS	0	02/18/2021
Module: PCB: JMT: Assembled: IS	S-25318-IS	1	02/03/2021
Sensor: JMT: Assemblies: IS	S-25382-IS	1	1/14/2021
Housing: JMT: Assembled: IS	S-25530-IS	1	1/14/2021
PCB Fabrication & Assembly, JMT Base	PC-V22403	3	12/3/2020
PCB Fabrication & Assembly, JMT Analog	PC-V22404	6	1/21/2021
PCB Fabrication & Assembly, JMT CPU	PC-V22405	6	1/21/2021
PCB Fabrication & Assembly, JMT Display	PC-V22406	3	12/3/2020
PCB Fabrication & Assembly, JMT Sensor	PC-V22407	3	12/3/2020
Schematic, JMT Base PCB	ES-V22403	2	6/18/2020
Schematic, JMT Analog PCB	ES-V22404	4	6/17/2020
Schematic, JMT CPU PCB	ES-V22405	4	6/16/2020
Schematic, JMT Display PCB	ES-V22406	2	6/16/2020
Schematic, JMT Sensor PCB	ES-V22407	2	2/27/2020
Tubing: Shrink: Heat: High-Temp	E-HTHS-0375	1	1/6/2021
WIRE: UL1330	E-W-1330	2	02/03/2021
Tag: IS: ATEX/IECEx: JMT	V-22484	4	02/03/2021
Tag: Model/Serial: JMT	V-22683	0	4/7/2020
JMT IS, Control & Installation	CI-35152-IS	6	02/03/2021

Copies of the above listed documents are kept at Intertek Italia S.p.A. archive.

15. SPECIAL CONDITIONS FOR SAFE USE

- 1. IP66: ALL COVERS FULLY CLOSED.
- 2. IP20: WHEN THE WINDOW COVER IS OPEN EXPOSING ELECTRONICS TO ATMOSPHERE. USER SHOULD TAKE PRECAUTIONS TO AVOID INGRESS THAT MIGHT DAMAGE PROTECTIONS WHEN COVER IS REMOVED.
- 3. VOLTAGE NEEDS TO BE SUPPLIED THROUGH APPROVED HART® COMPATIBLE ISOLATOR BARRIER.
- 4. TAKE PRECAUTION TO AVOID POSSIBLE IGNITION HAZARDS BY IMPACT OR FRICTION.

16. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant essential Health and Safety Requirements have been identified and assessed in Intertek 104028124CRT-007A dated 18.FEB.2021.

17. ROUTINE (FACTORY) TESTS

NA / Non

18. DETAIL OF CERTIFICATE CHANGES

NA / None



16633 Foltz Parkway • Strongsville, Ohio 44149, U.S.A. • Telephone (440) 572-1500 • Fax (440) 238-8828
www.clark-reliance.com

EU Declaration of Conformity

Manufacturer: The Clark-Reliance Corporation
16633 Foltz Parkway
Strongsville, OH 44149 USA

Model # JMT Magnetostrictive Level Transmitter

Rating:  II 2 G
Ex db ia IIB T4 Gb
-40C ≤ Ta ≤ +60C

Declaration: The equipment listed is in conformity with the provisions of the ATEX directive 2014/34/EU.

Certificate: ITS-I21ATEX28848X
Intertek Italia S.p.A
Via Guido Miglioli 2/A
20063 Cerbusco sul Naviglio – Milano (MI)
County: Italy

Standards: 60079-0: 2018 60079-1:2014

QAN: QAN Certificate Number ITS09ATEXQ6353 issued by
Intertek Italia S.p.A
Via Guido Miglioli 2/A
20063 Cerbusco sul Naviglio – Milano (MI)
County: Italy

Authorized Signature(s): 
Engineering Manager

03 / 29 / 2021
Date

OR
:
MRfQ

Date

