UK-TYPE EXAMINATION
CERTIFICATE

Product or Protective Systems Intended for Use in Potentially Explosive Atmospheres

UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

1. **UK-Type Examination Certificate Number:** **ITS21UKEX0388X** **Issue 0**

2. **Product:** MSM433A and MSM448A Sensor Units

3. **Manufacturer:** Delta Mobrey Limited.

4. **Address:** Riverside Business Park, Dogflud Way, Farnham, Surrey, GU9 7SS, UK

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 and Certification Limited, Approved Body number 0359, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this 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 Schedule 1 of the Regulations.
   The examination and test results are recorded in the confidential report 104795862LHD-001.

7. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018 & EN 60079-11:2012 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 UK-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Regulations 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 1 G Ex ia IIC T3 to T6 Ga

T6 = -40°C ≤ Ta ≤ +70°C, T5 = -40°C ≤ Ta ≤ +85°C,

T4 = -40°C ≤ Ta ≤ +120°C, T3 = -40°C ≤ Ta ≤ +150°C.

Certification Officer: A M Smart **Date:** 19-Jan-2022

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. This Certificate is accredited under UKAS schedule 0010
Intertek Testing & Certification Limited, Cleeve Road, Leatherhead, Surrey, KT22 7SA
Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.

SCHEDULE:

UK-Type Examination Certificate Number: ITS21UKEX0388X Issue 0

11. Description of Product or Protective System

The MSM Sensor is designed to obtain signals proportional to the suspended solids concentration in the liquid between the two sensor faces.

The MSM Sensor may be a MSM433A Tank Mount Sensor or a MSM448A Pipe Mount Sensor.

The sensor comprises encapsulated piezoelectric crystals and a printed circuit board containing duplicate shunt Zener diodes, housed within a metallic enclosure. The sensor is supplied with an integral cable.

The MSM Sensor type MSM433A or MSM448A is intended to be supplied from the MSM400 Control Unit.

The MSM Sensor can have the following T classes and ambient temperature ranges:

T class (Tx)	Process Temperature (Tp)
T6	-40°C to 70°C
T5	-40°C to 85°C
T4	-40°C to 120°C
T3	-40°C to 150°C

12. Report Number

Intertek Report: 104795862LHD-001 Issue: 0 Dated: December 2021.

13. Special Conditions of Certification

(a). Special Conditions of Use

- The Degree of protection (IP20) for Control Unit shall be maintained with use of suitable Cable glands for cables and blanking plugs for unused openings.

(b). Conditions of Manufacture - Routine Tests

- None.

14. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report: 104795862LHD-001 Issue: 0 Dated: December 2021.

15. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
APPR. DRG. MSM SENSOR CERT LABEL	71097/1319	C	29/10/19
APPR. DRG. I.S. MSM SENSOR RANGE	71097/971	5	08/10/13
Sch.Dwg. MSM Sensor UKCA Ex Markings	71097/1517	A	22/10/2021

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