

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:** ITS00ATEX2003X **Issue 2**
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, 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 of the Directive.
7. Compliance with the Essential Health and Safety Requirements has been assured by compliance with BS EN IEC 60079-0:2018 & BS 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 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 1 G Ex ia IIC T3 to T6 Ga

T6 = $-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$, T5 = $-40^{\circ}\text{C} \leq T_a \leq +85^{\circ}\text{C}$,

T4 = $-40^{\circ}\text{C} \leq T_a \leq +120^{\circ}\text{C}$, T3 = $-40^{\circ}\text{C} \leq T_a \leq +150^{\circ}\text{C}$.

Certification Officer: _____ **Date:** _____
V K Varma

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 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:

EU-Type Examination Certificate Number:

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11. Description of Equipment 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: 05016209 Issue: 1 Dated: October 2000.

Intertek Report: G101243282 Issue: 1 Dated: October 2013.

Intertek Report: 104038037LHD-001 Issue: 1 Dated: October 2019.

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

None.

14. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report: 104038037LHD-001 Issue: 1 Dated: October 2019.

SCHEDULE:

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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

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

16. Details of Certificate changes ITS00ATEX2003/1

Intertek Project No. G10243282

To permit the following changes:

- Re-assessment of the MSM Sensors to the requirements of the latest standards EN 60079-0:2012, EN 60079-11:2012 and EN 60079-26:2007.
- Changes to the appropriate documents to reflect the above changes.

The following drawings have changed as part of this variation:

Title:	Drawing No.:	Rev. Level:	Date:
APPR. DRG. MSM SENSOR CERT LABEL	71097/1319	2	07/10/13
APPR. DRG. I.S. MSM SENSOR RANGE	71097/971	5	08/10/13

17. Details of Certificate changes ITS00ATEX2002 Issue 2

Intertek Project No. G104038037

To permit the following changes:

- Update to BS EN IEC 60079-0, from 2012 to 2018.
- Company name change, from Mobrey Measurement to Delta Mobrey Limited
- Revision to marking label to accept company name change and QAR provider.
- Added X condition to certificate number in line with Special Conditions of Use.

The following drawings have changed as part of this variation:

Title:	Drawing No.:	Rev. Level:	Date:
APPR. DRG. MSM SENSOR CERT LABEL	71097/1319	C	29/10/19