

UK-TYPE EXAMINATION CERTIFICATE

Product or Protective Systems Intended for Use in Potentially Explosive Atmospheres

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

- UK-Type Examination Certificate Number:** ITS21UKEX0413X **Issue 00**
- Product:** VM Pressure Switch
- Manufacturer:** Delta Mobrey Ltd
- Address:** Riverside Business Park, Dogflud Way, Farnham, Surrey, GU9 7SS, UK
- This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- 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 104795997CHE-002 dated 1st December 2021.
- 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 60079-31:2014 except in respect of those requirements referred to within item 14 of the Schedule.
- 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.
- 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.
- The marking of the product shall include the following:



Ex db IIC T6 Gb -55/35 or 20°C (dependant on O-ring type) ≤ Ta ≤ 65°C
Ex db IIC T5 Gb -55/35 or 20°C (dependant on O-ring type) ≤ Ta ≤ 80°C
II 2 GD Ex tb IIIC T75 Db -55/35 or 20°C (dependant on O-ring type) ≤ Ta ≤ 65°C
Ex tb IIIC T90 Db -55/35 or 20°C (dependant on O-ring type) ≤ Ta ≤ 80°C

Certification Officer: _____

M Newman

Date: _____

9th December 2021

SCHEDULE:

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11. Description of Product or Protective System

The RVM SERIES Switch comprises a cast stainless steel body containing one or two micro switches. Process pressure is sensed by a diaphragm that generates a force proportional to the applied pressure. This force is opposed by an adjustable spring that, at the point of equilibrium, permits movement of an operating rod which actuates the switch or switches. Various ranges can be provided depending on the diaphragm and the spring rating. The RVM2 SERIES Switch body has a threaded cover, which is locked against loosening.

The switches are rated at 5A max, 110/250V ac, 2A 30 Vdc or 1A 125V ac, 0.1A 30V dc

Both internal and external earthing facilities are provided.

A cable entry hole is provided for the accommodation of a suitable certified flameproof cable gland, with or without the interposition of a suitable certified flameproof thread adaptor.

12. Report Number

Intertek Report: 104795997CHE-002 dated 1st December 2021.

13. Special Conditions of Certification

(a). Special Conditions of Use

- Use high temperature cable suitable for at least 100°C. See manual for further information.
- The cable gland, stopping plug or blanking element used shall be Ex d/tb IIC/IIIC Gb/Db rated for a service temperature of -55°C to +100°C minimum.
- Only one suitably rated and approved thread adaptor shall be used when one is required.
- Flamepaths are not intended to be repaired.

(b). Conditions of Manufacture - Routine Tests

- None - The enclosure has passed the 4 times overpressure exemption from routine test.

14. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report: 104795997CHE-002 dated 1st December 2021.

15. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
Enclosure assembly – RVM Series ATEX Approval	14719	O	20/12/19
Marking for RVM2 Series – ATEX Approval	14720	J	20/12/19
Sch.Dwg. VM Series UKCA Ex d Markings	71097/1527	A	04/11/2021