

1 **UK-TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1**

3 UK-Type Examination Certificate Number: **BAS22UKEX0174X**

4 Product: **Range of Sentry Pressure Switches**

5 Manufacturer: **Delta Mobrey Ltd**

6 Address: **Hudson House, Albany Park, Camberley, Surrey , GU16 7PL, UK**

7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 SGS Baseefa, Approved Body number 1180, in accordance with Regulation 43 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 confidential Report No. **GB/BAS/ExTR23.0062/00**

9 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 listed at item 18 of the Schedule.

10 If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 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.

12 The marking of the product shall include the following:

Ex II 1G Ex ia IIC T5 Ga (-60°C ≤ Ta ≤ 80°C) Ex ia IIC T6 Ga (-60°C ≤ Ta ≤ 65°C)

Ex II 2D Ex ia IIIC T85°C Db (-60°C ≤ Ta ≤ 65°C) Ex ia IIIC T100°C Db (-60°C ≤ Ta ≤ 80°C)

SGS Baseefa Customer Reference No. **0279**

Project File No. **22/0274**

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R S Sinclair

R S SINCLAIR
TECHNICAL MANAGER
On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number BAS22UKEX0174X**

15 **Description of Product**

The Range of Sentry Pressure Switches are designed to operate one or two microswitches mounted within an enclosure and connected to intrinsically safe circuits. The microswitches are operated by a mechanical plunger assembly which passes through the enclosure wall and is actuated by an external diaphragm assembly. The external diaphragm assembly may be used to sense pressure, differential pressure or temperature by the use of various different mechanical sensor arrangements.

The equipment comprises an epoxy painted aluminium alloy or stainless-steel enclosure with a mechanical plunger assembly containing a piston and diaphragm assembly which is connected externally to various process connections. The piston passes through a bushing arrangement into the main enclosure to actuate one or two microswitches. External electrical connections to the microswitches enter the enclosure via cable glands and are connected to the internal terminals. Although not required for the circuits, an internal earth terminal is provided which is connected to the metallic enclosure.

Each of the microswitches may be single or double pole, double throw switches and all the electrical connections must form part of the same intrinsically safe circuit. Where two microswitches are fitted then all the electrical connections must form part of the same intrinsically safe circuit. The electrical circuits are capable of withstanding a 500V test to earth.

The Range of Sentry Pressure Switches have various different mechanical sensor arrangements which are not controlled by the certification.

The terminal parameters associated with the equipment are:

$U_i = 30 \text{ V}$; $I_i = 100 \text{ mA}$; $P_i = 0.6 \text{ W}$; $C_i = 0$; $L_i = 0$.

16 **Report Number**

GB/BAS/ExTR23.0062/00

17 **Specific Conditions of Use**

1. The Sentry Pressure, Differential Pressure and Temperature Switches must not be installed in a location where moving dust flow can generate an electrostatic charge on the equipment.
2. The Sentry range of pressure switches may be provided with an aluminium alloy or stainless steel enclosure. For models that have an aluminium enclosure, identified in the model number by 5XXX XXXXXXXXXX where "X" describes other parameters of the equipment, the enclosure must be installed in such a manner that it is protected from sources of impact and friction when installed in its end-use application

18 **Essential Health and Safety Requirements**

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
13	Protection against other hazards (LVD type requirements, etc.)
14	Overloading of equipment (protection relays, etc.)
21 (1)	External effects
21 (2)	Aggressive substances, etc.

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
71097-SE-018	1 of 1	A	14/12/2022	SENTRY INTRINSIC SAFETY NAMEPLATE

For all other drawings, see Baseefa11ATEX0203X.