

**UNITED KINGDOM CONFORMITY ASSESSMENT
UK TYPE EXAMINATION CERTIFICATE**

**Product Intended for use in Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1**

Type Examination Certificate Number: **ExVeritas 25 UKEX 2060X** Issue: **0**

Product: SCH4x Connection Head DM650XLP Loop Powered Indicator

Manufacturer: Status Instruments Ltd

Address: Status Business Park, Gannaway Lane, Tewkesbury, GLOS, GL20 8FD

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

ExVeritas Limited Approved Body number 2585, 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 by UKSI 2019:696), 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.

Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0: 2018
IEC 60079-11:2023**

Except in respect of those requirements listed at section 16 of the schedule to this certificate.

If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

This 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 equipment shall include the following:

 II 1G Ex ia IIC T4 Ga
Ta = -20°C to +60°C



No. 8613

On behalf of ExVeritas



S Clarke CEng MSc FIET
General Manager

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Schedule

13 Description of Product

The "SCH4X + DM650XLP monitoring system" is intended for fixed installation in explosive gas environments classified as IECEx Zone 0 and ATEX / UKEX Category 1G. The system contains four aspects:

1. SCH4X Connection Head enclosure - Considered in this approval.
2. DM650XLP 4-20 mA signal display - Considered in this approval.
3. A Signal transmitter – Covered by another approval.
4. Sensor element such as RTD, thermocouple – Considered simple apparatus (does not require approval).

SCH4X Connection Head

Item 1 is considered the main enclosure of the system. It is made from ABS and provides degree of protection IP67 only when fully assembled with item 3 and 4 (for intended use only). When combined with item 2 the standard opaque cover is replaced with a transparent ABS cap. This housing has a top and bottom entry which is used to pass wired connections to and from the electronics. Each entry can be threaded using any combination of the following four options; 1/2 Inch BSP, 1/2 Inch NPT, M24, M20, and M16. The entries are closed by the connection to the simple apparatus.

DM650XLP 4-20 mA signal display

The DM650XLP (item 2) is housed within the SCH4X (item 1). When installed in its intended application it receives its power directly from the signal transmitter (item 3) or suitably certified Ex Equipment (which may be external to the SCH4X connection head) which itself is powered from an Intrinsically safe power source. The DM650XLP is an electronic device which is used to interrogate a 4-20 mA signal. The signal current is either provided by suitably certified Ex Equipment or item 3 and converted to a value which can be displayed on the included liquid crystal display. The manufacturer has prescribed the following limiting parameters for the input terminals to this device as follows.

$$U_i = 30 \text{ V}, I_i = 101 \text{ mA}, P_i = 757.5 \text{ mW}, C_i = 0 \text{ }\mu\text{F}, L_i = 4 \text{ }\mu\text{H}$$

Signal transmitter (TTR200X, TTC200X, SEM210X, or SEM310X)

The signal transmitter is a device which converts a raw analog signal from a sensor (described in item 4 below) to a 4-20 mA current signal output. This signal can be passed into the DM650XLP (item 2) which can accept the 4-20 mA input signal. The signal transmitter resembles a "puck" as it is encapsulated in a round form factor, with only its output terminals exposed. The device is housed completely within the enclosure described in item 1 above. The transmitters are evaluated individually without an enclosure or signal display in the certificates listed below.

Signal transmitter certificates: IECEx EXV 25.0016X, ExVeritas 25ATEX2063X, ExVeritas 25UKEX2064X
EMT16ATEX0005X, CML 21UKEX2525X, IECEx EMT 16.0003X

Additionally, the signal transmitters have terminals intended for connection to the suitably certified USBTTX or USBX Config devices outside of a hazardous area. This accessory is separately certified under the following certificate numbers:

Certificates for USB Configuration accessories:

USB TTX (TTR200X / TTC200X): EMT 16ATEX0050X, CML 21UKEX2527X, IECEx EMT 16.0030X
USBX (SEM210X / SEM310X): EMT 16ATEX0024X, CML21UKEX2526X, IECEx EMT 16.0013X

Sensing elements

The sensing element is intended to be an RTD, thermocouple, potentiometer or resistance device. The sensing element is considered "Simple Apparatus" and does not require approval.

Assembly combinations

Combinations of these aspects are intended to be combined and assembled together to make an intrinsically safe system depending on the end user requirements. The part numbering scheme is below and shows the potential options covered by this certificate.

Certificate: **ExVeritas 25UKEX2060X** Issue 0

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Part number disambiguation

SCH4X 1 - 2 - 3 - 4 - 5

Position 1: SCH4X Body

A = Single side, B = two side entries (opposite ends), C = one side entry and one base entry (adjacent)

Position 2: Display type

0 = No display type (SCH4 Cap), 1 = DM650XLP 4-20 mA signal display

Position 3: In-head transmitter type

0 = no transmitter, 1 = TTR200X, 2 = TTC200X, 3 = SEM210X, 4 = SEM310X

Position 4: SCH4X side entry A

1 = 1/2 Inch BSP, 2 = 1/2 Inch NPT, 3 = M24, 4 = M20, 5 = M16

Position 5: SCH4X side entry B or base entry C

0 = 1/2 Using A body (not needed), 1 = 1/2 Inch BSP, 2 = 1/2 Inch NPT, 3 = M24, 4 = M20, 5 = M16

14 Descriptive Documents

14.1 Associated Report and Certificate History:

Report	Date	Issue	Description
R5459/A/1	22-OCT-2025	0	Initial issue of the Prime Certificate

15 Manufacturer's Responsibility (or Schedule of Limitations)

15.1 Special Conditions for Safe Use

- When the system is fully assembled (with enclosure and at least the DM650XLP or a signal transmitter) all entries of the SCH4X shall be closed or populated so that the SCH4X enclosure meets IP20 according to IEC 60529:1992+A2:2013.
- The signal transmitters shall only be configured using the separately certified USBTTX or USBX Config devices outside of a hazardous area. (USB TTX: EMT 16ATEX0050X, CML 21UKEX2527X, IECEx EMT 16.0030X, and USBX: EMT 16ATEX0024X, CML 21UKEX2526X, IECEx EMT 16.0013X respectively). The temperature sensor must be located in the safe area when being used with the USBTTX or USBX Config device.
- The sensor connections of all signal transducers are only suitable for use with simple apparatus as defined by IEC 60079-11.
- Such devices shall also pass the dielectric strength test prescribed by IEC 60079-11.
- For simple apparatus: The installer shall confirm (by calculation or measuring) that the process temperature does not exceed temperature classification in which the Ex Equipment is installed.
- When installed inside Group IIB, and IIC atmospheres: the SCH4X is made from materials that under certain conditions may accumulate ignition-capable electrostatic charges. It shall not be installed where the external conditions may lead to the build-up of electrostatic charges. Additionally, the equipment may only be cleaned with a damp cloth.

16 Essential Health and Safety Requirements (Regulations Schedule 1)

Essential Health and Safety Requirements are addressed by the standards listed in section 9 and where required the report listed in section 14.1. The manufacturer shall inform ExVeritas of any modifications to the design of the product described by this schedule.

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