CERTIFICATE OF CONFORMITY

FM Approvals
Member of the FM Global Group

1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**

2. **Certificate No:**   **FM19US0030X**

3. **Equipment:**   **Desktop and Panel Mount Keyboards and Pointers.**
   (Type Reference and Name)   **5000-DT-FSR-IS-PS/2, 5000-DT-FSR-NI (PS/2 USB),**
        5000-PM-FSR-IS-PS/2, 5000-PM-FSR-NI (PS/2 USB),
        FTM-DT-FSR-IS-PS/2, FTM-DT-FSR-NI (PS/2 USB),
        FTM-PM-FSR-IS-PS/2, FTM-PM-FSR-NI (PS/2 USB),
        2000-DT-FSR-IS-PS/2, 2000-DT-FSR-NI (PS/2 USB),
        2000-PM-FSR-IS-PS/2, 2000-PM-FSR-NI (PS/2 USB),
        1000-DT-IS-PS/2, 1000-DT-NI (PS/2 USB),
        1000-PM-IS-PS/2, 1000-PM-NI (PS/2 USB),
        5000-DU-FSR-IS-PS/2, 5000-DU-FSR-NI (PS/2 USB)

4. **Name of Listing Company:**   **STEALTH.COM**

5. **Address of Listing Company:**   **4-530 Rowntree Dairy Rd.**
        Woodbridge, ON L4L 8H2
        Canada

6. The examination and test results are recorded in confidential report number:

   PR452890 dated 8th March 2019

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

   FM Class 3600:2018, FM Class 3610:2018, FM Class 3611:2018, FM Class 3810:2018,
   ANSI/UL 60079-0:2013, ANSI/UL 60079-11:2014, ANSI/ISA 12.12.01:2015,
   ANSI/ISA 61010-1:2012, ANSI/NEMA 250:1991

8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

Certificate issued by:

J. E. Marquedant (signature)

J. E. Marquedant
VP, Manager - Electrical Systems

8 March 2019
Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com

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9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

10. Equipment Ratings:

    Intrinsically Safe for Class I, Division 1, Groups C, D, E, F, G;
    Nonincendive for Class I, Division 2, Groups A, B, C, D;
    Suitable for Class II, III, Division 2, Groups F, G;
    indoor and outdoor locations (Type 4X) with an ambient temperature rating of -40°C to +75°C.

11. The marking of the equipment shall include:

    Intrinsically Safe Class I,II,III, Division 1, Groups C, D, E, F, G; T4 Ta = -40°C to +75°C; Type 4X

    Nonincendive Class I, Division 2, Groups A, B, C, D; Class II, III, Division 2, Groups F, G; T4 Ta = -40°C to +75°C; Type 4X

12. **Description of Equipment:**

    General - The Model 5000-DT-FSR-IS-PS/2, 5000-DT-FSR-NI (PS/2 USB), 5000-PM-FSR-IS-PS/2, 5000-PM-FSR-NI (PS/2 USB), FTM-DT-FSR-IS-PS/2, FTM-DT-FSR-NI (PS/2 USB), FTM-PM-FSR-IS-PS/2, FTM-PM-FSR-NI (PS/2 USB), 2000-DT-FSR-IS-PS/2, 2000-DT-FSR-NI (PS/2 USB), 2000-PM-FSR-IS-PS/2, 2000-PM-FSR-NI (PS/2 USB), 1000-DT-IS-PS/2, 1000-DT-NI (PS/2 USB), 1000-PM-IS-PS/2, 1000-PM-NI (PS/2 USB), 5000-DU-FSR-IS-PS/2 and 5000-DU-FSR-NI (PS/2 USB) Keyboards and Pointing Devices consist of one or two PCBs containing a membrane keypad, a matrix of keys, and the associated circuitry, depending on the model selected.

    Construction - The enclosure of the keyboards are constructed of stainless steel (or in the case of 5000-DU-FSR-IS-PS/2 and 5000-DU-FSR-NI (PS/2 USB) conductively-coated polycarbonate) with a silicone rubber membrane keypad. The housing provides cable entry for each circuit through cable glands installed in the rear or back side, depending on the model selected.

    Connection to the process control apparatus is accomplished via a 9-pin connector or a USB connector attached to a cable. Keyboards with a pointing device contain a different set of electronics to support that function.

    Ratings – IS version products are powered through a Daisy Data P070-000AAA-01 EX210 barrier.
    NI Version products are powered through a Pepperl and Fuchs SK-PC-D2-UU1-10-HS Ex-rated barrier.

    The Desktop and Panel Mount Keyboards and Pointers operate at 5 Vdc. The ambient operating temperature range of the Keyboards and Pointing Devices is -40°C to 75°C.

    5000-DT-FSR-IS-PS/2, 5000-PM-FSR-IS-PS/2
    IS / I / 1 / CDEFG / T4 Ta = -40°C to +75°C – HL0082; Type 4X

    FTM-DT-FSR-IS-PS/2, FTM-PM-FSR-IS-PS/2
    IS / I / 1 / CDEFG / T4 Ta = -40°C to +75°C – HL0084; Type 4X

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2000-DT-FSR-IS-PS/2, 2000-PM-FSR-IS-PS/2
IS / I / 1 / CDEFG / T4 Ta = -40°C to +75°C – HL0089; Type 4X

1000-DT-IS-PS/2, 1000-PM-IS-PS/2
IS / I / 1 / CDEFG / T4 Ta = -40°C to +75°C – HL0093; Type 4X

5000-DU-FSR-IS-PS/2
IS / I / 1 / CDEFG / T4 Ta = -40°C to +75°C – HL0097; Type 4X

5000-DT-FSR-NI (PS/2 USB), 5000-PM-FSR-NI (PS/2 USB)
NI / I / 2 / ABCD / T4 Ta = -40°C to +75°C – HL0083; Type 4X
S / II, III / 2 / FG / T4 Ta = -40°C to +75°C – HL0083; Type 4X

FTM-DT-FSR-NI (PS/2 USB), FTM-PM-FSR-NI (PS/2 USB)
NI / I / 2 / ABCD / T4 Ta = -40°C to +75°C – HL0085; Type 4X
S / II, III / 2 / FG / T4 Ta = -40°C to +75°C – HL0085; Type 4X

2000-DT-FSR-NI (PS/2 USB), 2000-PM-FSR-NI (PS/2 USB)
NI / I / 2 / ABCD / T4 Ta = -40°C to +75°C – HL0090; Type 4X
S / II, III / 2 / FG / T4 Ta = -40°C to +75°C – HL0090; Type 4X

1000-DT-NI (PS/2 USB), 1000-PM-NI (PS/2 USB)
NI / I / 2 / ABCD / T4 Ta = -40°C to +75°C – HL0094; Type 4X
S / II, III / 2 / FG / T4 Ta = -40°C to +75°C – HL0094; Type 4X

5000-DU-FSR-NI (PS/2 USB)
NI / I / 2 / ABCD / T4 Ta = -40°C to +75°C – HL0098; Type 4X
S / II, III / 2 / FG / T4 Ta = -40°C to +75°C – HL0098; Type 4X

13. **Specific Conditions of Use:**

    1. IS versions of the keyboards must be used with the Daisy Data 9122-9141 Intrinsic Safety Isolator.
    2. For models ***5000-DU-FSR-IS-PS/2*** *and* ***5000-DU-FSR-NI (PS/2 USB)***, in order to avoid danger of ignition due to electrostatic charges, care must be taken to protect the conductive coating on the plastic housing from environmental conditions such as small particles in an air stream or solvent vapors that may affect its durability.
    3. NI versions of the keyboard must be used with the Pepperl+Fuchs SK-PC-D2-UU1-10-HS Ex-rated barrier.

14. **Test and Assessment Procedure and Conditions:**

    This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

15. **Schedule Drawings**

    A copy of the technical documentation has been kept by FM Approvals.

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16. **Certificate History**

Details of the supplements to this certificate are described below:

Date	Description
8th March 2019	Original Issue.

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