CERTIFICATE OF CONFORMITY

1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
2. **Certificate No:** **FM19US0054X**
3. **Equipment:** **SCU Series Universal Transmitters**
   (Type Reference and Name)
4. **Name of Listing Company:** **AutomationDirect**
5. **Address of Listing Company:** **3505 Hutchinson Road**
   Cumming, GA 30040
   United States
6. The examination and test results are recorded in confidential report number:

   3025177 dated 8th April 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 3600:2011, FM Class 3611:2004, FM Class 3810:2005, ANSI/ISA 61010-1:2004

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.
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:

    Nonincendive for Class I, Division 2, Groups A, B, C, and D Hazardous (classified) indoor locations, with a T5 temperature classification.
    Nonincendive for Class I, Division 2, Group IIC Hazardous (classified) indoor locations, with a T5 temperature classification.

11. The marking of the equipment shall include:

Certificate issued by:

J. E. Marquedant
VP, Manager, Electrical Systems

8 April 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

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Class I, Division 2, Groups A, B, C, D; T5 Ta = -20°C to +60°C;

Class I, Division 2, Group IIC; T5 Ta = -20°C to +60°C

12. **Description of Equipment:**

Model Number	Description
SCU-1400	Universal Transmitter
SCU-1600	Universal Transmitter
SCU-3100	Universal Transmitter
SCU-PDM1	Display/Programming Front

The SCU series, consisting of SCU-1400, SCU-1600 and SCU-3100, is a range of universal signal conditioning modules. By way of the detachable front programming unit SCU-PDM1, the new modules can be programmed quickly and easily to suit the specific application. The SCU series can be configured for all types of standard industrial measuring signals such as RTD, TC, Ohm, potentiometer, mA and V. Depending on the desired output function, the customer can choose between the SCU-1400 with analog output, the SCU-3100 with 2 relays or the SCU-1600 with analog output and 2 relays. All the modules feature universal power supply of 21.6 to 253VAC and 19.2 to 300VDC.

The SCU series is easily configured by way of the detachable display front SCU-PDM1. The customer is guided through all the configuration steps by simple and explanatory help texts which are available in 7 different languages. When mounted in the process, the display front can be used for signal visualization, but the modules can also function without the display front. Through the programming front, the user gains access to a host of interesting functions e.g. sophisticated relay settings, process calibration, process simulation, TAG numbering, display settings, sensor error action and much more. When the display front SCU-PDM1 is mounted on modules in the process, the customer can obtain information on e.g. process value, output value, relay state, communication state or TAG number.

Safe signal conditioning SCU-3100 and SCU-1600 come with 2 relays, which can be configured independently of one another for surveillance of e.g. flow, level, temperature, speed or whichever measurement signal the input reflects. The relays can be set up as single trip amplifiers, window function, sensor error detection and much more. In units featuring analog output, sensor error action on the output can be chosen freely.

The front programming unit ensures that the new SCU series is completely independent of PCs, DIP-switches and jumpers while still offering the user full flexibility. Finally, the SCU-1400 and SCU-3100 are just restricted versions of the SCU-1600. The SCU-3100 has no analog output and the SCU-1400 has no relays. Aside from these variations, all PCBs are the same as the SCU-1600 PCB.

13. **Specific Conditions of Use:**

1. The products may be used with the SCU-PDM1 Display/Programming front accessory.
2. The equipment shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application, including a tool removable cover.

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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.

16. **Certificate History**

Details of the supplements to this certificate are described below:

Date	Description
8th April 2019	Original Issue.

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