

CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
2. **Certificate No:** FM16US0041
3. **Equipment:** SWG70 WirelessHART Fieldgate
(Type Reference and Name)
4. **Name of Listing Company:** Endress + Hauser Process Solutions AG
5. **Address of Listing Company:** Christoph Merian-Ring 12, BL. 1
Reinach, Ch-4153
Switzerland
6. The examination and test results are recorded in confidential report number:

3057835 dated 1st February 2017
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 60079-0:2009, ANSI/ISA 60079-15:2009
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, D; Nonincendive for Class II and III, Division 2, Group E, F, G; Class I, Zone 2 AEx nA nC IIC indoor Hazardous (Classified) Locations, temperature classification T4 Ta = -20°C to 60°C.

Certificate issued by:

J.E. Marquedant
Manager, Electrical Systems

1 February 2017

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

SCHEDULE



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11. The marking of the equipment shall include:

Class I Division 2, Groups A, B, C, D T4

Class II, Division 2, Groups E, F, G, Class III, Division 2 T4

Class I, Zone 2, AEx nA nC IIC T4 Gc

Ta = -20°C to +60°C;

12. **Description of Equipment:**

The device forms the interface between a WirelessHART network to DCS or AMS. It supports WirelessHART networks with up to 250 network participants and provides a RS485 and Ethernet interface. Both interfaces transmit HART or MODBUS protocol (model types .EIP use Ethernet/IP protocol). A OPC connectivity can be accomplished using the HART OPC server. The unit is programmed with a configuration tool (DTM or DD). Also, it offers a web interface for direct access via browser.

A set of screw-type connectors provide electrical connection with the other devices; an antenna port is available for connection of specific antenna for communication with wireless devices.

All accessible interfaces (redundant power supply, Ethernet and RS485) are functionally isolated from each other and are also isolated from the painted aluminum enclosure.

SWG70-F1-a-b-c, WirelessHART Fieldgate

NI/I/2/ABCD/T4 Ta = -20°C to 60°C

NI/II, III/2/EFG/T4 Ta = -20°C to 60°C

I/2/AEx nA nC/IIC/T4 Ta = -20°C to 60°C

a = 1 (Modbus, HART), 2 (Modbus, HART, OPC), 3(Ethernet/IP)

b = IK (customized parameterization), IW(w/o tooling DVD)

c = Z1 (Tagging)

13. **Specific Conditions of Use:**

None.

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
1 st February 2017	Original Issue.

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