

# CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
2. **Certificate No:** FM17US0106
3. **Equipment:** LGC2 Level Probe  
**(Type Reference and Name)**
4. **Name of Listing Company:** Pepperl+Fuchs GmbH
5. **Address of Listing Company:** Lilienthalstrasse 200  
Mannheim D-68307  
Germany
6. The examination and test results are recorded in confidential report number:  
  
3061901 dated 17<sup>th</sup> April 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 3610:2007, FM Class 3810:2005,  
ANSI/ISA 12.00.01:2005, ANSI/ISA 12.12.02:2002, IEC 60529:2001, 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.
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 A, B, C and D; Class I, Zone 0, AEx ia IIC T\*.  
T\* - Temperature code per ambient temperature as noted.

**Certificate issued by:**

J. E. Marquedant  
Manager, Electrical Systems

17 April 2017

Date

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://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](mailto:information@fmapprovals.com) [www.fmapprovals.com](http://www.fmapprovals.com)

# SCHEDULE



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11. The marking of the equipment shall include:

Class I Division 1, Groups A, B, C, D – Entity per DOCT-5520

Class I, Zone 0, AEx ia IIC - Entity per DOCT-5520;

T6 Ta = -10°C to +40°C; T5 Ta = -10°C to +55°C; T4 Ta = -10°C to +70°C

12. **Description of Equipment:**

The LGC2 Level Probe is a pressure transmitter for level measurement of liquids using hydrostatic pressure. The pressure transmitter is suspended by means of its cable down to the bottom of the tank or reservoir. The measured hydrostatic pressure is proportional to the water column above the sensor.

### **LGC2 Level Probe**

Sensor entity parameters:

Vmax = 30 V DC, Imax = 133 mA, Pmax = 1 W

Ci and Li per following table:

Length of Sensor Cable	Ci (10.3 nF + 180 pF/m)	Li (1µH/m)
5 m	11.3 nF	5 µH
10 m	12.2 nF	10 µH
20 m	14.0 nF	20 µH
30 m	15.8 nF	30 µH
50 m	19.4 nF	50 µH
100 m	28.4 nF	100 µH
200 m	46.4 nF	200 µH
300 m	64.4 nF	300 µH

T\* - Temperature code per ambient temperature

Temperature class	Ambient temperature
T6	-10°C to +40°C
T5	-10°C to +55°C
T4	-10°C to +70°C

13. **Specific Conditions of Use:**

None

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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
17 <sup>th</sup> April 2017	Original Issue.

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