

CERTIFICATE OF CONFORMITY



- HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
- Certificate No:** FM18US0205
- Equipment:** Capanivo CN 7000, Type CN 7100
(Type Reference and Name) Capacitance Level Switch
- Name of Listing Company:** UWT GmbH
- Address of Listing Company:** Westendstrasse 5
Betzigau
D-87488
Germany
- The examination and test results are recorded in confidential report number:
PR449355 dated 19th November 2019
- 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 3610:2010, FM Class 3611:2004, FM Class 3810:2005,
ANSI/ISA 60079-0:2009, ANSI/ISA 60079-11:2009, ANSI/ISA 61010-1:2004, ANSI/NEMA 250:1991,
ANSI/IEC 60529:2001
- 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.
- 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.

Certificate issued by:

J.E. Marquedant
VP, Manager - Electrical Systems

19 November 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
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SCHEDULE



US Certificate Of Conformity No: FM18US0205

10. Equipment Ratings:

Intrinsically safe for use in Class I, II, III, Division 1, Groups A, B, C, D, E, F and G, T4 Ta = -30°C to 85°C in accordance with Entity requirements and Control drawing CN7_gi150917; Non-incendive for use in Class I, Division 2, Groups A, B, C and D, T4 Ta = -30°C to 85°C; Suitable for use in Class II, III, Division 2, Groups F and G, T4 Ta = -30°C to 85°C per Control drawing CN7_gi150917 hazardous (classified) locations (Type 4, IP65, IP68).

11. The marking of the equipment shall include:

IS, Class I, II, III, Division 1, Groups A, B, C, D, E, F, G; T4 Ta = -30°C to +85°C - CN7_gi150917; Entity NI, Class I, II, III, Division 2, Groups A, B, C, D, F, G; T4 Ta = -30°C to +85°C - CN7_gi150917

12. Description of Equipment:

General - Capacitance Level Switch Capanivo CN 7000 Type CN 7100 is used to detect the level of a liquid or a solid medium in storage tanks. The probe is an active capacitance assembly which detects the presence of medium at the probe tip. The probe is PPS or Teflon (PVDF) lined integral part of the apparatus. The output is a 4/20 mA current signal (selectable high or low) and an isolated solid state switch (opto coupler driven).

Construction - The sensitivity of the medium sensor (probe) is potentiometer adjustable. The unit is completely encapsulated, with the exception of the potentiometer, which is covered by a screwed cover which includes an O-ring seal. The Capanivo CN 7000 Type CN 7100 is provided with an enclosure with conduit connection or with integral cable in which intrinsically safe circuits run. The standard integral cable length is 1.5 m (5 ft), but longer integral cables are available. In type of protection IS the supply and output circuit and the solid state switch circuit are connected to FM Approved associated intrinsically safe apparatus, per Entity concept. The enclosure is rated Type 4, IP65 and IP68.

Ratings - The power rating is 12 to 30Vdc (type of protection NI) or 10 to 30Vdc (type of protection IS), the ambient temperature range is -30°C to +85°C and the probe's process connection is 3/4" NPT or R1" or G1" thread with a process pressure rating of 1000 kPa.

Capanivo CN 7000, Type CN 7100 AabAcd2* Capacitance Level Switch.

In type of protection IS, Entity Parameters per control drawings

a = Certificate

H (Type of protection NI)

Y, N (Type of protection IS)

b = Device Version; 1 (Integral cable, Type 4, IP65) or 2 (Enclosure, Type 4, IP68)

c = Material of sensor: A or B

d = Process connection; A, E, or J

* = Additional information (not in code)

13. Specific Conditions of Use:

None

14. Test and Assessment Procedure and Conditions:

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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
19 th November 2019	Original Issue.

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