

CERTIFICATE OF CONFORMITY

1. **ELECTRICAL EQUIPMENT PER US REQUIREMENTS**

2. **Certificate No:** FM18NUS0010

3. **Equipment:** Capanivo CN 7000, Type CN 7100
(Type Reference and Name) Capanivo CN 8000, Type CN 8100
RFnivo RF 8000, Type RF 8100 and RF 8200
Capacitance Level Switches

NivoCapa NC 8000, Type NC 8100
Capacitance Level Transmitters

4. **Name of Listing Company:** UWT GmbH

5. **Address of Listing Company:** Westendstrasse 5
Betzigau
D-87488
Germany

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

PR449355 dated 19th November 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 3810:2005, ANSI/ISA 61010-1:2004, ANSI/NEMA 250: 991, ANSI/IEC 60529:2001

8. 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



to US Certificate Of Conformity No: FM17NUS0010

9. Equipment Ratings:

Suitable for use in unclassified (non-hazardous) locations. Process Control Equipment meeting basic electrical, mechanical, and fire protection requirements (Type 4, IP65, IP68).

Capanivo CN 7100

Type 4 / IP65/ IP68 enclosure, conduit or integral cable connected

Rated Input 12 to 33V DC, 4/20 mA current loop

Solid state switch 30V DC or AC, 82 mA

Relay output 60V DC or 30V AC, 1A, 60W

Ambient -30°C to 85°C

Pollution Degree 2

Installation Category I

Capanivo CN 8100 and RFnivo RF 8100/RF 8200 with Standard Electronics

Rated Input 12 to 250V DC or AC, 2W

Solid state switch 30V DC or AC, 82 mA

Relay output 30V DC /5A, 250V AC / 8 A (resistive load)

Capanivo CN 8100 and RFnivo RF 8100/RF 8200 with Digital Electronic

Type 4 / IP65/ IP68 enclosure, conduit connected

Rated Input 12 to 30V, 12.5mA

Solid state switch 30V DC or AC, 82 mA

Ambient -40°C to 85°C

Pollution Degree 4

Installation Category I

NivoCapa NC 8100

Type 4 / IP65/ IP68 enclosure, conduit connected

Rated Input 12 to 30V, 4-20mA

Ambient -40°C to 85°C

Pollution Degree 4

Installation Category I

10. Description of Equipment:

General – The Capanivo CN 7100, CN 8100 and RFnivo RF 8100/RF 8200 Capacitance Level Switches are capacitance switches with a high level of chemical resistance; ideal for level detection of interfaces, solids, liquids, slurries, and foam, and for simple pump control. The switch responds to the presence of any material with a relative dielectric constant of 1.5 or more by detecting a change in capacitance, which is registered as a change in oscillating frequency. It can be set to detect before contact or to contact with the probe.

The NivoCapa NC 8100 is an inverse frequency shift capacitance continuous level transmitter. The NivoCapa NC 8100 is available in two versions: rod and cable.

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11. Test and Assessment Procedure and Conditions:

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

12. Schedule Drawings

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

13. Specific Conditions of Use:

None

14. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
19 th November 2019	Original Issue.

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