

EU-TYPE EXAMINATION CERTIFICATE



Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

EU-Type Examination Certificate Number: **DEMKO 08 ATEX 0727941X Rev. 5**

Product: **Series CTM and CTX Antennas**

Manufacturer: **Analynk Wireless LLC**

Address: **790 Cross Pointe Road, Columbus, OH 43230 USA**

This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

UL International Demko A/S, notified body number 0539 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential report no. **4788703003.1.1**

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012+A11:2013

EN 60079-1:2014

If the sign "X" is placed after the certificate number, it indicates that the product is subject to special conditions for safe use specified in the schedule to this certificate.

This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by the certificate.

The marking of the product shall include the following:

II 2 G Ex db IIB T5 Gb

Certification Manager

Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2008-07-11

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Notified Body

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Schedule

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Description of Equipment or protective system

Series CTM and CTX antennas consist of a metal antenna that is attached to a potted brass base that contains the wiring to the antenna and a polymeric dome cover that fits over the antenna and screws onto the brass base. Series CTX antennas are provided with a threaded 3/4 in. - 14 NPT base and Series CTM is provided with a M20 x 1.5 mm threaded base.

Nomenclature for Series CTM and CTX antennas:

CTM - 5999TF

I II

I. Antenna Series

CTM - M20 x 1.5 mm base and max. 2 W output
CTX - 3/4" NPT base and max. 2 W output

II. Frequency Ratings

XX-TF or XX-TR

XXX-TF or XXX-TR

XXXX-TF or XXXX-TR

(XX can be no less than 25MHz)

(XXX can be no less than 100MHz)

(XXXX can be no less than 1000 and more than 5999MHz)

TR: TNC Female Connector

TF: TNC Reverse Polarity Female Connector

The relation between ambient temperature and the assigned temperature class is as follows:

Series
CTM and CTX

Ambient Temperature Range
-40 °C to +85 °C

Temperature Class
T5

Electrical data:

Input: 5999 MHz maximum

Output: 2 W maximum (Series CTM and CTX)

Routine tests

Routine tests according to EN 60079-1, cl. 16 are not required as the antenna enclosures have been successfully tested at four times the reference pressure.

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Descriptive Documents.

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this EC-Type Examination Certificate.

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Specific conditions of use:

- CTM and CTX Antennas: Ambient Temperature Range: $-40\text{ °C} \leq T_a \leq +85\text{ °C}$.
- CTM and CTX Antennas: To reduce the risk of ignition due to electrostatic discharge, avoid contact with the unit while an explosive atmosphere is present. Clean only with a damp cloth. Do not use chemical cleaners.
- Antenna is to be mounted via the 3/4" NPT or M20 supply connection in an enclosure or other suitable device (e.g. conduit).
- Flameproof Joint Parameters - Contact the Manufacturer.

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Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.