



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx UL 12.0061X

Issue No: 9

Certificate history:

Status: **Current**

Issue No. 9 (2018-12-11)

Issue No. 8 (2018-01-29)

Date of Issue: **2018-12-11**

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Issue No. 7 (2016-03-21)

Issue No. 6 (2015-07-23)

Issue No. 5 (2015-05-19)

Issue No. 4 (2015-05-08)

Issue No. 3 (2015-03-23)

Issue No. 2 (2014-11-26)

Issue No. 1 (2013-01-22)

Issue No. 0 (2012-11-30)

Applicant: **Analynk Wireless LLC**
790 Cross Pointe Road
Columbus, OH 43230
United States of America

Equipment: **Series CTM and CTX Antennas**

Optional accessory:

Type of Protection: **Flameproof "db"**

Marking:

Ex db IIB T5 Gb

-40°C ≤ Ta ≤ +85°C

*Approved for issue on behalf of the IECEx
Certification Body:*

Katy A. Holdredge

Position:

Senior Staff Engineer

*Signature:
(for printed version)*

Date:

2018-12-11

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America





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Manufacturer: **Analynk Wireless LLC**
790 Cross Pointe Road
Columbus, OH 43230
United States of America

Additional Manufacturing location(s):

Ometek, Inc.
790 Cross Pointe Road
Columbus, OH 43230
United States of America

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1 : 2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[US/UL/ExTR16.0060/02](#)

Quality Assessment Report:

[US/UL/QAR15.0007/02](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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 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.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- CTM and CTX Antennas: Ambient Temperature Range: $-40\text{ }^{\circ}\text{C} \leq T_a \leq +85\text{ }^{\circ}\text{C}$.
- 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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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1: Update frequency ratings of the antennas.

Issue 2: The manufacturer requested an alternate stainless steel material to be used for the nameplate on the Series CTM and CTX antennas. The mechanical assembly, as well as the flameproof construction did not change.

Issue 3: Updated drawings B10815B and B10816B, dated 11/29/10 were added from previous project.

Issue 4: New QAR linked to certificate.

Issue 5: Modification to thread engagement and wall thickness.

Issue 6: Drawing revisions.

Issue 7: Added two alternate element assemblies and relevant exploded view drawings.

Issue 8: Increase in length of the 3/4 in. – 14 NPT threaded section of the CTX antenna. Minor editorial changes to the drawings were made to reflect the differences between the CTX and CTM models.

Issue 9: Updated to the latest edition of IEC 60079-1.

Annex:

[Annex to IECEx UL 12.0061X Issue 9 .pdf](#)



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TYPE DESIGNATION

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 | (XX can be no less than 25MHz) |
| XXX-TF or XXX-TR | (XXX can be no less than 100MHz) |
| XXXX-TF or XXXX-TR | (XXXX can be no less than 1000 and more than 5999MHz) |

TR: TNC Female Connector

TF: TNC Reverse Polarity Female Connector

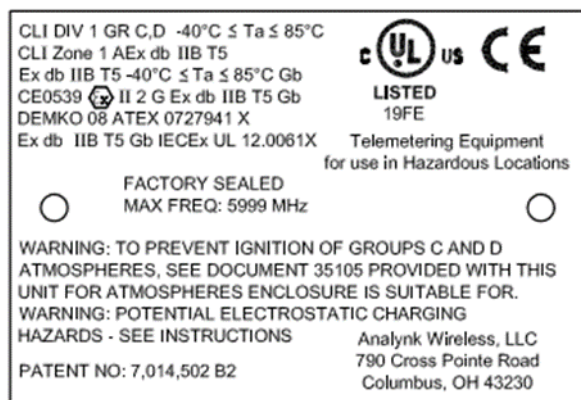
PARAMETERS RELATING TO THE SAFETY

Input: 5999 MHz maximum

Output: 2 W maximum (Series CTM and CTX)

MARKING

CTX Antennas:





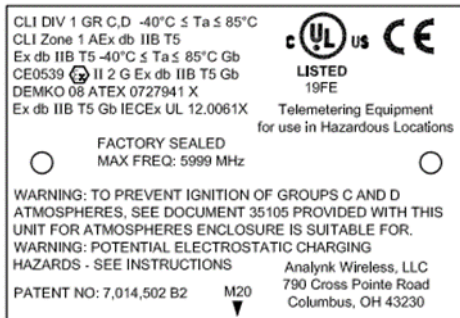
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CTM Antennas:



Serial Number Label:

