Cambium PTP-LPU Hazardous Location Guide



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About this guide

This guide identifies the specific requirements that must be met by the installer and operator of the Cambium Networks PTP-LPU when the product is intended for use in Hazardous Locations.

Hazardous Locations are those covered by the ATEX regulations in Europe and the HAZLOC regulations in the USA.

Version information

Document number and version: phn-4432 002v000 (March 2017).

User documentation

For full PTP-LPU installation planning instructions and a list of components, download phn-3348 - PTP 650 LPU and Grounding Kit Installation Guide from:

https://support.cambiumnetworks.com/files/ptp650/

Important safety information



Warning

To prevent fire and explosions when installing or operating the PTP-LPU in hazardous locations, observe the instructions in this guide.

Checking labels

Only products marked with the qualification label shown in Product labels on page 6 may be used in hazardous locations.

Special conditions

PTP-LPU specific:

- 1) Connection and disconnection of terminals and plugs when the equipment is energised is strictly prohibited.
- 2) Only ATEX certified AC + DC Enhanced Power Injector models (EMT16ATEX0052X / IECEx EMT 16.0029X) provided by Cambium Networks Ltd may be used in conjunction with the equipment.
- 3) The connections into the hazardous areas from the AC + DC Enhanced Power Injector (EMT16ATEX0052X/ IECEx EMT 16.0029X) to the LPU are at incendive energy levels and so they shall be made using protective shielded cable that provides protection from impact and damage in accordance with EN/IEC 60079-14.

Allowed operating envelope

The PTP-LPU has been certified for operation in the following hazardous locations:

ATEX

The products have been approved under an 'Intrinsic Safety' assessment as defined in EN/IEC 60079-11:2012.

Approval is given by IECEx certificate number IECEx EMT 16.0028X and ATEX certificate number EMT16ATEX0051X, issued by Element Materials Limited, with the specific level of coverage shown below.

- II 3 G Ex ic IIC T4 Gc
- II Equipment group (surface applications)
- 3 Equipment category (infrequent exposure)
- G Atmosphere (Gas)
- ic Protection concept (intrinsic safety)
- IIC Gas group (up to and including Hydrogen and Acetylene)
- T4 Temperature class (135°C)
- Gc Equipment Protection Level

HAZLOC

The products have been assessed and found compliant with the requirements of ANSI 12.12.01 and CSA C22.2 No. 213 for the following conditions.

The approval is given by MET Labs under File Reference E113068, with the specific level of coverage shown below.

- Complies with ANSI 12.12.01 and CSA C22.2 No. 213
- Class I Gases, Vapors and Liquids (surface applications)
- Div -2 (Infrequent Exposure)
- Gas Groups A, B, C, D (up to and including Hydrogen and Acetylene)
- Operating Temperature Code T4 (135°C)

Part numbers and product labels

Part numbers

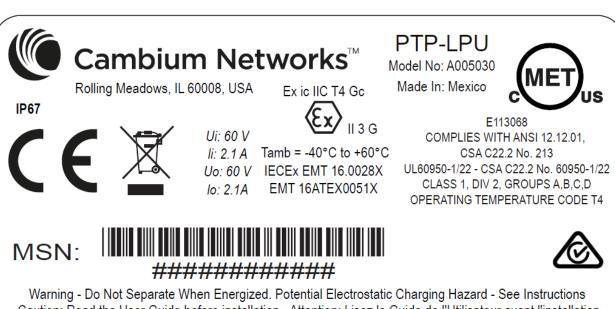
The PTP-LPU is supplied as a kit under the part number shown in Table 1 below.

Table 1 PTP-LPU model/part number

LPU model / part number	Description
C000065L007B	PTP-LPU and Grounding Kit (1 kit per END)

Product labels

Figure 1 Certification label on PTP-LPU



Caution: Read the User Guide before installation - Attention: Lisez le Guide de l'Utilisateur avant l'installation

Installation and operating requirements

Environmental requirements

The PTP-LPU complies with the reduced circuit separation requirements of EN/IEC 60079-11:2012 Annex F. The product is protected by enclosures rated to IP67.

Dielectric strength

The PTP-LPU is a surge suppression device designed to shunt abnormal voltage surges to ground. The intrinsically-safe-circuit-to-ground dielectric strength is nominally 90 V dc.

General requirements

ATEX regulatory environments

Installation should be in accordance with the requirements of EN/IEC 60079-14 as applicable.

HAZLOC regulatory environments

Installation should be in accordance with the National Electrical Code (NEC) and relevant OSHA standard.

Warnings

Before installing these products, read Important safety information on page 4.

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