



Hazardous Location Installation Information

This chapter contains the following sections:

- [Hazardous Area Installation Warnings, on page 1](#)
- [North American Hazardous Location Approval, on page 3](#)
- [EMC Environmental Conditions for Products Installed in the European Union, on page 4](#)
- [Hazardous Locations Standards, on page 4](#)

Hazardous Area Installation Warnings



Caution When installed in a Class I. Div/Zone 2 hazardous location environment, this equipment must be installed in a min. IP54, ATEX certified enclosure.



Caution Airflow around the switch must be unrestricted. To prevent the switch from overheating, there must be the following minimum clearances:

- Top and bottom: 2.0 in. (50.8 mm)
 - Sides: 2.0 in. (50.8 mm)
 - Front: 2.0 in. (50.8 mm)
-

Contact your Cisco Technical Assistance Centre (TAC) if tighter spacings are required.



Caution When installed in a Class I. Div/Zone 2 hazardous location environment. this equipment must be installed in a pollution degree 2 environment per IEC 60664-1)



Caution This equipment is suitable for use in Class I. Division 2. Groups A, B. C. D. or only nonhazardous locations.



Caution Do not install or remove SFP modules when an explosive atmosphere may be present.



Caution Do not install or remove power supplies when an explosive atmosphere may be present.



Caution Do not use the USB Console Service Port when an explosive atmosphere may be present.



Warning Exposure to some chemicals could degrade the sealing properties of materials used in the sealed relay device. Statement 381



Warning This unit is intended for installation in restricted access areas. A restricted access area can be accessed only through the use of a special tool, lock and key, or other means of security. Statement 1017



Warning To prevent the system from overheating, do not operate it in an area that exceeds the maximum recommended ambient temperature of : 140°F (60°C) Statement 1047



Warning When you connect or disconnect the power and/or alarm connector with power applied, an electrical arc can occur. This could cause an explosion in hazardous area installations. Be sure that all power is removed from the switch and any other circuits. Be sure that power cannot be accidentally turned on or verify that the area is nonhazardous before proceeding. Statement 1058



Warning In switch installations in a hazardous location, the DC power source could be located away from the vicinity of the switch. Before performing any of the following procedures, locate the DC circuit to ensure that the power is removed and cannot be turned on accidentally, or verify that the area is nonhazardous before proceeding. Statement 1059



Warning This equipment is supplied as “open type” equipment. It must be mounted within an enclosure that is suitably designed for those specific environmental conditions that will be present and appropriately designed to prevent personal injury resulting from accessibility to live parts. The interior of the enclosure must be accessible only by the use of a tool. The enclosure must meet IP 54 or NEMA type 4 minimum enclosure rating standards. Statement 1063



Warning Use twisted-pair supply wires suitable for 86°F (30°C) above surrounding ambient temperature outside the enclosure. Statement 1067



Warning When used in a Class I, Division 2, hazardous location, this equipment must be mounted in a suitable enclosure with a proper wiring method that complies with the governing electrical codes. Statement 1069



Warning Explosion Hazard—The area must be known to be nonhazardous before installing, servicing, or replacing the unit. Statement 1082



Note This equipment has been tested by UL for the explosion, fire, shock and casualty hazards required by the applicable hazardous locations standards. UL certification does not cover the performance or reliability of any GPS hardware, GPS operating software, or other GPS-related aspects of equipment covered under this category. Accordingly, UL makes no representations, warranties or certifications regarding the performance or reliability of any GPS-related functions of equipment covered under this category.

North American Hazardous Location Approval

The following information applies when operating this equipment in hazardous locations:

English:	Products marked "Class I, Div 2, GP A, B, C, D" are suitable for use in Class I Division 2 Groups A, B, C, D, Hazardous Locations and nonhazardous locations only. Each product is supplied with markings on the rating nameplate indicating the hazardous location temperature code. When combining products within a system, the most adverse temperature code (lowest "T" number) may be used to help determine the overall temperature code of the system. Combinations of equipment in your system are subject to investigation by the local Authority Having Jurisdiction at the time of installation.
Français:	Informations sur l'utilisation de cet équipement en environnements dangereux: Les produits marqués "Class I, Div 2, GP A, B, C, D" ne conviennent qu'à une utilisation en environnements de Classe I Division 2 Groupes A, B, C, D dangereux et non dangereux. Chaque produit est livré avec des marquages sur sa plaque d'identification qui indiquent le code de température pour les environnements dangereux. Lorsque plusieurs produits sont combinés dans un système, le code de température le plus défavorable (code de température le plus faible) peut être utilisé pour déterminer le code de température global du système. Les combinaisons d'équipements dans le système sont sujettes à inspection par les autorités locales qualifiées au moment de l'installation.

EMC Environmental Conditions for Products Installed in the European Union

This section applies to products to be installed in the European Union.

The equipment is intended to operate under the following environmental conditions with respect to EMC:

- A separate defined location under the user's control.
- Earthing and bonding shall meet the requirements of ETS 300 253 or CCITT K27.
- AC-power distribution shall be one of the following types, where applicable: TN-S and TN-C as defined in IEC 364-3.

In addition, if equipment is operated in a domestic environment, interference could occur.

Hazardous Locations Standards

The following standards were used for the hazardous locations approvals and certifications:	Les normes suivantes ont été appliquées pour les approbations et les certifications dans le cadre d'environnements dangereux :
ANSI/ASA 12.12.01-2013	ANSI/ASA 12.12.01-2013
CAN/CSA C22.2 No. 60079-0-11 Ed. 2	CAN/CSA C22.2 n° 60079-0-11 Éd. 2
CAN/CSA C22.2 No. 60079-15-12 Ed. 1	CAN/CSA C22.2 n° 60079-15-12 Éd. 1
CSA C22.2 No. 213-M1987	CSA C22.2 n° 213-M1987
EN 60079-0:2012+A11:2013	EN 60079-0:2012+A11:2013
EN 60079-15:2010	EN 60079-15:2010
IEC 60079-0 6th Edition	IEC 60079-0, 6e édition
IEC 60079-15 4th Edition	IEC 60079-15, 4e édition
UL 60079-0, 5th Ed, 2009-10-21	UL 60079-0, 5e éd., 21-10-2009
UL 60079-15, 3rd Ed, 2009-7-17	UL 60079-15, 3e éd., 17-07-2009
The following hazardous locations strings are provided on the access point:	Les marques d'homologation relatives aux environnements dangereux suivantes sont apposées sur le point d'accès :
Class 1, Div 2, Groups A B C D	Classe 1, Div 2, Groupes A B C D
Class 1, Zone 2, Ex nA nC IIC T4 Gc X	Classe 1, Zone 2, Ex nA nC IIC T4 Gc X
II 3 G, Ex nA nC IIC T4 Gc	II 3 G, Ex nA nC IIC T4 Gc

The following standards were used for the hazardous locations approvals and certifications:	Les normes suivantes ont été appliquées pour les approbations et les certifications dans le cadre d'environnements dangereux :
DEMKO 14 ATEX 1435X	DEMKO 14 ATEX 1435X
Class 1, Zone 2, AEx nA nC IIC T4 Gc	Classe 1, Zone 2, AEx nA nC IIC T4 Gc

