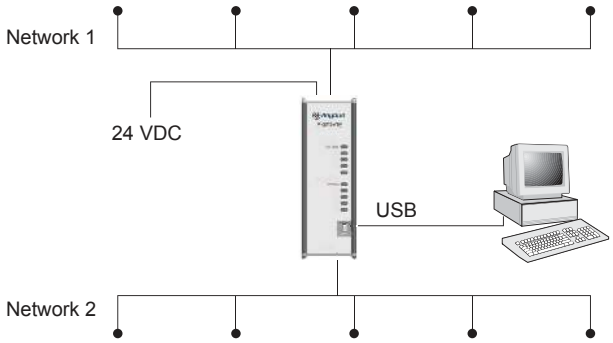
Concept

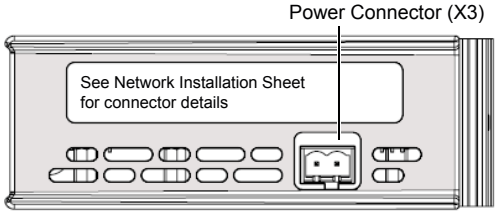
The Anybus X-gateway acts as a translation device between two different fieldbus networks.



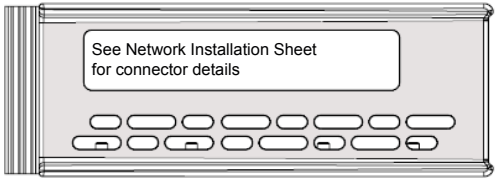
Internally the gateway consists of two separate network interfaces, mounted at the top and bottom end of the gateway respectively, and a translation device handling communication between the interfaces.

For more information about the specific interfaces, please refer to the **Network Installation Sheet** for each fieldbus network.

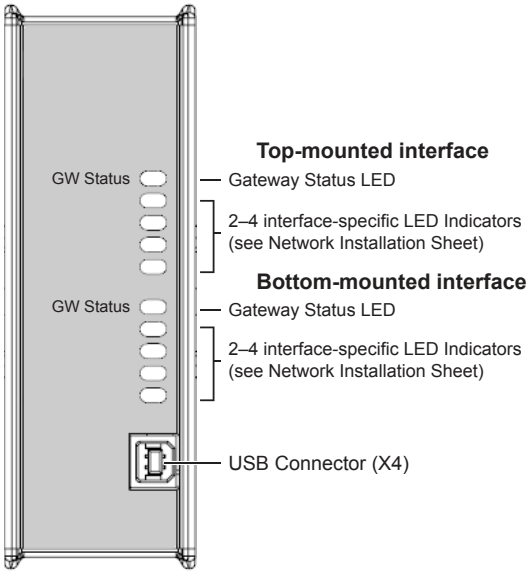
Top view



Bottom view



Front view

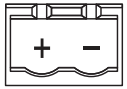


Gateway Status LED

Indication	Meaning
Green	Communication running
Red	Communication error
Red (flashing)	Network interface error

The interface-specific LED indicators are described in the Network Installation Sheets for the respective fieldbus network interfaces.

Power Connector (X3)

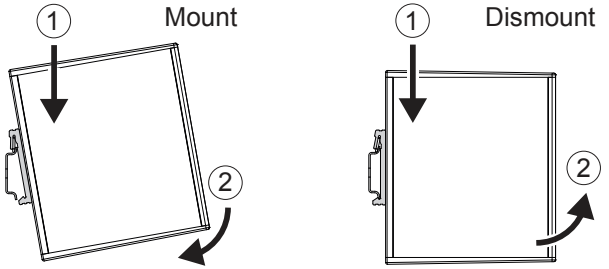


Pin	Signal
+	24 VDC ±20 % Class 2
–	Ground

DIN Rail Mounting (standard)

Align the gateway with the DIN rail connector, then press firmly on the top end and push the lower end into place.

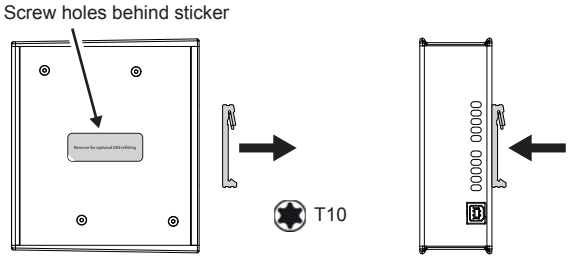
To dismount the gateway, press firmly on the top end, then pull the lower end away from the DIN rail.



DIN Rail Mounting (sideways)

Remove the sticker covering the screw holes on the right side panel. Unscrew the DIN clip from the back and refit it to the side panel.

Mount/dismount the gateway the same way as in standard mounting.



Technical Specifications

Power supply	24 VDC ±20 % Class 2
Power consumption	200 mA at 24 VDC (typical) 400 mA at 24 VDC (maximum)
Operating temperature	-25 to +65 °C @ 400 mA/24 VDC
Non-operating temperature	-40 to +85 °C
Relative humidity	5–95 % non-condensing
Protective Earth (PE)	Internal connection to PE via the DIN rail

Technical Support

Technical support, documentation and software downloads are available at www.anybus.com.

Additional Installation and Operating Instructions

Field wiring terminal markings (wire type (Cu only, 14-30 AWG))
Use 105 °C copper (Cu) wire only.
Terminal tightening torque: 5–7 lb-in (0.5–0.8 Nm)

Use in Overvoltage Category I Pollution Degree 2 Environment conforming to EN 60664-1.

Operating temperature/Surrounding temperature:
-25 to +65 °C @ 300 mA @ 24 V DC
-25 to +50 °C @ 300 mA @ 24 V DC (Profinet IRT Fiber Optics)

Maximum surface temperature: 135 °C

Pressure: 850–1050 millibar (85–105 kPa)

This product is designed to safely operate in class I, division 2 Hazardous location according to ANSI/ISA 12.12.01-2013 and category 3, zone 2 according to EN 60079-0:2012 and EN 60079-15:2010.

SUITABLE FOR USE IN CLASS I, DIVISION 2, GROUPS A, B, C AND D HAZARDOUS LOCATIONS, OR NONHAZARDOUS LOCATIONS ONLY.

To comply with ATEX directives, the equipment must be installed within an IP54 enclosure and must be installed with a transient suppressor on the supply that does not exceed 140 % (33.6 V DC) of the nominal rated supply voltage.

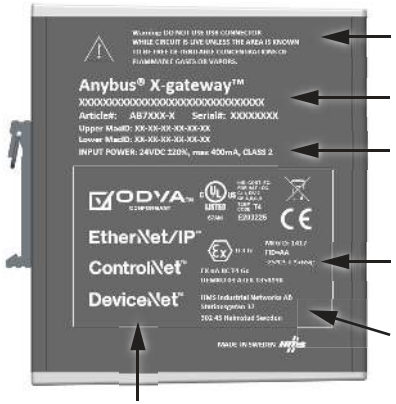
Warnings

- **WARNING - EXPLOSION HAZARD - SUBSTITUTION OF ANY COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2.**
- **WARNING - EXPLOSION HAZARD - WHEN IN HAZARDOUS LOCATIONS, TURN OFF POWER BEFORE REPLACING OR WIRING MODULES.**
- **WARNING - EXPLOSION HAZARD - DO NOT DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN SWITCHED OFF OR THE AREA IS KNOWN TO BE NONHAZARDOUS.**
- **WARNING - EXPLOSION HAZARD- THE USB CONNECTOR IS NOT FOR USE IN HAZARDOUS LOCATIONS AND FOR TEMPORARY CONNECTION ONLY. DO NOT USE, CONNECT OR DISCONNECT UNLESS THE AREA IS KNOWN TO BE NONHAZARDOUS. CONNECTION OR DISCONNECTION IN AN EXPLOSIVE ATMOSPHERE COULD RESULT IN AN EXPLOSION.**
- **WARNING - INSTALL IN A TOOL LOCKED ENCLOSURE CONSIDERED REPRESENTATIVE OF THE INTENDED USE.**

Attention!

- **ATTENTION – RISQUE D'EXPLOSION – LE REMPLACEMENT DE TOUT COMPOSANTS INVALIDE LA CERTIFICATION CLASS I, DIVISION 2.**
- **ATTENTION – RISQUE D'EXPLOSION – EN ZONE EXPLOSIVE, VEUILLEZ COUPER L'ALIMENTATION ÉLECTRIQUE AVANT LE REMPLACEMENT OU LE RACCORDEMENT DES MODULES.**
- **ATTENTION – RISQUE D'EXPLOSION – NE PAS DÉCONNECTER L'ÉQUIPEMENT TANT QUE L'ALIMENTATION EST TOUJOURS PRÉSENTE OU QUE LE PRODUIT EST TOUJOURS EN ZONE EXPLOSIVE ACTIVE.**
- **ATTENTION – RISQUE D'EXPLOSION – LE CONNECTEUR USB N'EST PAS FAIT POUR UN USAGE EN MILIEU EXPLOSIF. NE PAS, BRANCHER ET DEBRANCHER SANS SAVOIR SI LA ZONE N'EST PAS IDENTIFIEE NON EXPLOSIVE. BRANCHER OU DEBRANCHER EN ZONE EXPLOSIVE PEUT ENTRAINER UNE EXPLOSION.**
- **AVERTISSEMENT – INSTALLER DANS UNE ARMOIRE VERROUILLEE VALIDANT L'ACTE VOLONTAIRE D'UTILISATION.**

Label Markings



Warnings

Product name, number, description

Electrical rating

Surrounding temperature rating

Name and address of manufacturer

Certification markings

UL Certification

c UL us LISTED 67 AM

IND: CONT. EQ.
FOR HAZ LOC.
CL1, DIV 2
GP A,B,C,D
TEMP CODE T4
E203225

ATEX Certification

EX nA IIC T4 Gc

Ex II 3 G

Demko 03 ATEX 135419X

EMC Compliance (CE)

CE

This product is in accordance with the EMC directive 2004/108/EC through conformance with the following standards:

- **EN 61000-6-4 (2007)**
  Emission standard for industrial environment
  EN 55016-2-3, Class A (2010)

- **EN 61000-6-2 (2005)**
  Immunity for industrial environment
  EN 61000-4-2 (2009)
  EN 61000-4-3 (2006)
  EN 61000-4-4 (2012)
  EN 61000-4-5 (2014)
  EN 61000-4-6 (2014)