

When installing, commissioning, operating and maintaining devices or device components of the IS-RPI system as an intrinsically safe electrical apparatus in potentially explosive atmospheres, you must heed the EC-type examination certificate and the applicable national and local construction, installation and operating regulations.

### Mounting

The Gateway RSD-GW-Ex2.CN is an Interface between the intrinsically safe ControlNet and the IS-RPI system. A separate terminal base is not required. The mounting is shown in the following figure.

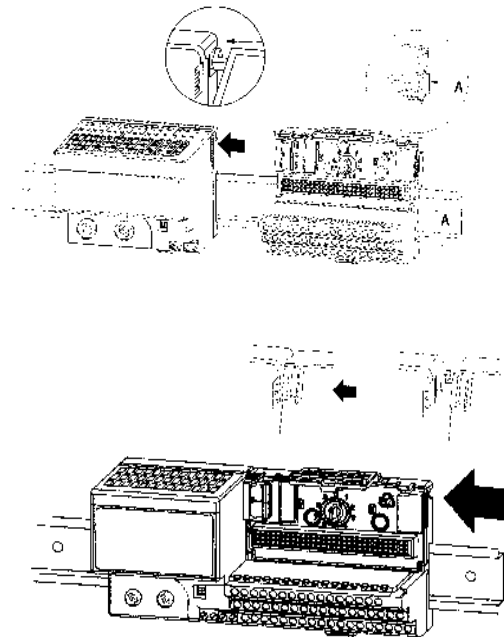


Figure 1

The cover plug on the side of the gateway (see figure 3) must only be removed when a terminal base is connected to the gateway.

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One gateway can address a maximum of 8 modules.

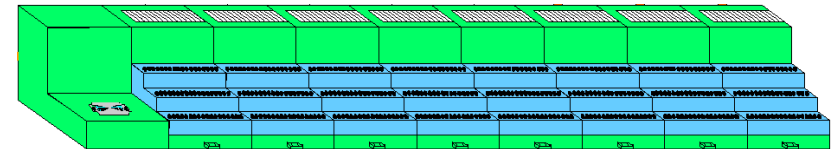
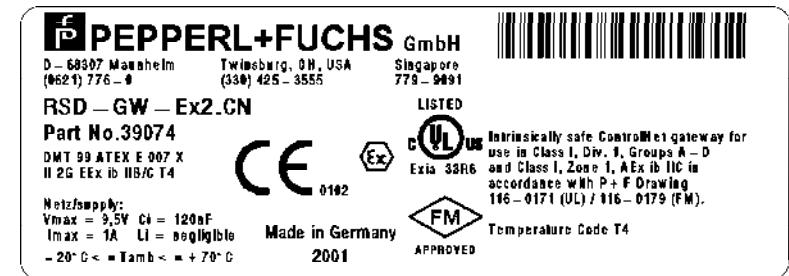


Figure 2

### Label

The product label is located inside the module (Figure 3):



### Cover plug for backplane bus

The cover plug can only be removed when a Terminal Base is connected. The connection must not be connected to any signals, which exceed the intrinsically safe values of the backplane bus.

### Power Supply

The gateway is powered via the terminals V+ and V-. The maximum intrinsically safe values must not be exceeded.

### Address Assignment

For the operation via ControlNet a ControlNet device address must be set via the DIP switches on the front plate of the gateway (see Figure 3).

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### Connection to the ControlNet transmission cable

When the gateway is delivered all connectors are protected with a cover plug. Each cover plug must only be removed when the gateway will be connected. The ControlNet transmission cable has to be connected via a RS-TP.... The RS-TP... drop cable is connected to BNC connector A. The redundant transmission cable also has to be connected via a RS-TP... to connector B.

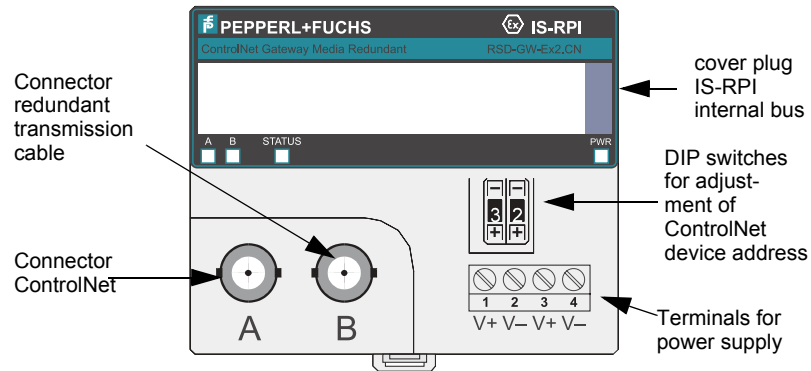


Figure 3

### Installation

The gateway must not be exposed to the environment. Provide a separate enclosure with a protection factor of at least IP54. The gateway must be installed in such a way that protection factor IP20 is guaranteed.

### Safe area mounting

The gateway must not be used in an intrinsically safe environment after it has been exposed to non-intrinsically safe signals.

### Repair

The gateway is not field-repairable. Any attempt to open the gateway will void the warranty and IS certification. If repair is necessary, return this module to the factory.

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### ESD

Protect the system against electrostatic charge. Post a sign near this gateway: "Attention! Avoid electrostatic charge".

### Ambient Temperature

The ambient temperature of the gateway (-20 °C...+70 °C) has to be considered, especially when the unit is mounted in a cabinet where the internal temperature is increased by the power dissipation of the gateway itself.

### Zone 22

When the Gateway is installed in Zone 22 the following cabinets have to be used:

- IVK-ISRPI-V16LC
- IVK-ISRPI-V8HYW
- IVK-ISRPI-V8LC

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# Installation drawing: ControlNet Ex System

## NONHAZARDOUS LOCATION

Any apparatus, where the light emitting diodes are 'intrinsically safe' (light output must be < 5mW/qmm) i.e. HFBR 1312 from manufact. Hewlett-Packard

## HAZARDOUS (CLASSIFIED) LOCATION

Zone 1

## NONHAZARDOUS LOCATION (Safe Area)

