

Safety Instructions

ExTVA-600-U0

ATEX, IECEx: II(1)G [Ex ia Ga] IIC

ATEX, IECEx: II(1)D [Ex ia Da] IIIC

ATEX: II(3)G [Ex ec Gc] IIC

ExTVA-600-U0

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**Associated
documentation**

All documentation is available on the Internet:
www.acs-controlsystem.com



If not yet available, a translation into EU languages can be ordered.

To commission the device, please observe the Operating Instructions pertaining to the device.

**Manufacturer's
certificates**

IECEX certificate

Certificate number: IECEX EPS 25.0051X

ATEX certificate

Certificate number: EPS 25 ATEX 1 203 X

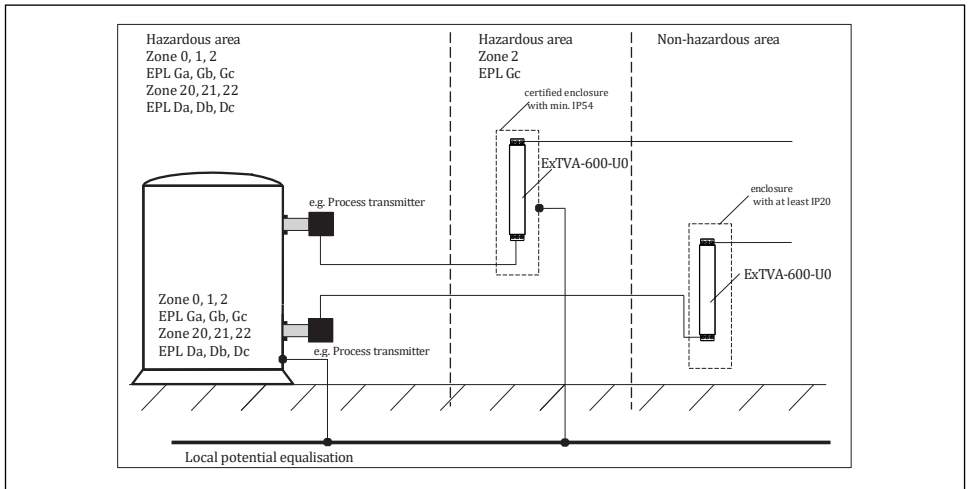
EU Declaration of Conformity

The EU Declaration of Conformity is available on the Internet:
www.acs-controlsystem.com

Certificate holder

ACS-Control-System GmbH
Lauterbachstrasse 57
84307 Eggenfelden, Germany

Safety instructions: Intrinsic safety



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- Comply with the installation and safety instructions in the Operating Instructions.
- Install the device according to the manufacturer's instructions and any other valid standards and regulations (e.g. EN/IEC 60079-14).
- The unit is an associated electrical apparatus and can only be installed outside the hazardous area.
- The unit must be installed in such way that a minimum ingress protection of IP 20 is achieved.
- When installing the unit care must be taken that there must be a spacing of at least 50 mm (zone radius) to the intrinsically safe terminals
- Screw tight the unused terminals for keeping the required distances between intrinsically safe circuits/terminals.

Safety instructions: Installation in Zone 2 (EPL Gc)

These instructions concern the required enclosure, accessories and supply cables in final application.

- Comply with the installation and safety instructions in the Operating Instructions.
- Install the device according to the manufacturer's instructions and any other valid standards and regulations (e.g. EN/IEC 60079-14).
- Seal the cable entries tight with certified cable glands which have at least type of protection Ex ec suitable for Group IIC (degree of protection IP54).

Safety instructions: Specific conditions of use

- If several devices are installed side by side, it is important to ensure that the maximum side wall temperature of the individual device of 80 °C (176 °F) is not exceeded. If this cannot be guaranteed, mount the devices at a distance from one another or ensure sufficient cooling.
- When install the unit in EPL Gc a certified enclosure shall be used providing a degree of protection of at least IP54 and compliance with the enclosure requirements to IEC/EN 60079-0.
- In an explosive atmosphere, do not open the certified enclosure when voltage is supplied (ensure that at least IP 54 is maintained during operation).
- For full certification as an electrical equipment for use in EPL Gc the tests according to IEC 60079-0:2017 section 5.2 and 5.3 have to be carried out. Based on the test results a temperature class shall be assigned.

| Category | Type of protection (ATEX) |
|----------|------------------------------|
| II(1)G | [Ex ia G _a] IIC |
| II(1)D | [Ex ia D _a] IIIC |
| II(3)G | [Ex ec Gc] IIC |

| Type of protection (IECEX) |
|------------------------------|
| [Ex ia G _a] IIC |
| [Ex ia D _a] IIIC |

Ambient temperature: -40 to +60 °C

| Type | Electrical data | | | |
|--|---|--|--|---|
| ExTVA-600-UO | terminals 1.1 (L/+), 1.2 (N/-) | | U = 24 to 230 V AC/DC (-20 %/+10 %) 50/60Hz Um = 250 V | |
| | Output circuit: terminal 3.1 (+), 3.2 (-) | | U = 30V DC I = 0/4 - 20 mA Um = 30 V | |
| | Input circuit: Connection 2-wire (active) terminal 4.1 (+), 4.2 (-) | | Uo ≤ 27.3V DC Io ≤ 87.6 mA Po = 597 mW Ci = negligibly small Li = negligibly small | |
| | Maximum connection values Single values: | Ex ia IIC Ex ia IIB Ex ia IIA | Lo = 5.2 mH Lo = 20.8 mH Lo = 44.8 mH | Co = 88 nF Co = 683 nF Co = 2280 nF |
| | Combined values Lo/Co: | Ex ia IIC | 1.3 mH/0.05 µF 1 mH/0.052 µF 0.5 mH/0.065 µF | |
| | | Ex ia IIB | 26 mH/0.39 µF 2 mH/0.44 µF 1 mH/0.53 µF; 0.5 mH/0.64 µF 0.2 mH/0.683 µF | |
| | | Ex ia IIA | 49 mH/1.3 µF 20 mH/1.6 µF 1 mH/1.8 µF; 0.5 mH/2.2 µF 0.2 mH/2.28 µF | |
| | Connection 4-wire (passive) terminal 4.2 (+), 4.3 (-) | | Uo ≤ 27.3V DC Io ≤ 10 mA Po = 68 mW Ci = negligibly small Li = negligibly small | |
| | Maximum connection values Combined values Lo/Co: | Ex ia IIC | 100 mH/0.065 µF; 2 mH/0.072 µF; 1 mH/0.081 µF; 0.5 mH/0.088 µF | |
| | | Ex ia IIB | 100 mH/0.48 µF; 2 mH/0.52 µF; 1 mH/0.59 µF; 0.5 mH/0.683 µF | |
| Ex ia IIA | | 100 mH/1.7 µF; 1 mH/1.9 µF; 0.5 mH/2.28 µF | | |
| Connection 4-wire (passive) terminal 4.2 (+), 4.3 (-) | | Ui ≤ 30 V DC Ii = not applicable when keeping Ui Pi = not applicable when keeping Ui Ci = negligibly small Li = negligibly small | | |



FEEL FREE TO
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