AWIN GW100 - Specific Conditions of Use

General

Provision must be made to limit transient voltages in excess of 120 V onto the power supply connections. This may be achieved by using a suitably protected power supply or other means.

Hazardous areas installation

The AWIN GW100 gateway is suitable for installation in potentially explosive areas of zone 2. Observe the specified conditions for use in potentially explosive areas.

- If the module is installed in a zone 2 area, it shall be housed in an enclosure that is coded Ex nA, Ex e, Ex d or Ex p.
- If the module is installed in a zone 22 or 21 hazardous area, it shall be housed in an enclosure that is coded Ex tD or Ex t.
- For some types of enclosure, additional certification will be required to permit the installation of the module within the enclosure and reference shall be made to the enclosure certificate. The installer shall ensure that the maximum ambient temperature of the module when installed is not exceeded.
- If connections are made to the relay connections on terminals 3 and 4 of the 4-way i/o terminal block on the front of the unit, then the maximum supply voltage (V) is 30 Vdc and the current shall be limited by a resistor of value R, such that V/R does not exceed 152 mA.
Snapping it onto or off the TBUS plug or connecting and disconnecting lines in potentially explosive areas is permissible only when the voltage is switched OFF.

The device should be switched OFF and immediately removed from the Ex area if it is damages, has been over loaded, has been stored incorrectly or is malfunctioning.

Further details can be found in the ATEX/IECEx certificates.

**Non-Hazardous areas installation**

If the module is installed in a non-hazardous area, the enclosure or location shall provide suitable protection. This may be either by the use of an enclosure approved for use in zones 1, 2, 21 or 22, or otherwise meets the following requirements:

- Non-metallic enclosures must be capable of withstanding the thermal endurance requirements of IEC 60079-0 prior to impact and IP54 testing.
- Any enclosure must be capable of withstanding an impact of 7J or the module is otherwise protected from impact.
- The enclosure or location must provide an ingress protection of at least IP54.
- If exposed to sunlight, non-metallic enclosures must be capable of meeting the requirements of IEC 60079-0 clause 26.10 regarding resistance to light.