

# Template:ATEX



ATEX logo



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## ATEX

ATEX certification is given to equipment that has gone through rigorous testing outlined by European Union directives. Products that are ATEX compliant have been proved safe to use in specific environments with explosive atmospheres, according to the zone/s they are certified to be used in.

## Description

The European Union has mandated that ATEX compliance is necessary wherever a potentially explosive atmosphere exists in order to keep workers safe. These atmospheres are characterized by possessing three things.

- Air
- An ignition source
- One of the following three substances:
  - Flammable gases
  - Mists or vapor
  - Combustible dust

Products that have received ATEX certification will have the official “Ex” badge, indicating they are safe in explosive atmospheres.

Non-ATEX/IECEx safe computing devices used in hazardous areas could be an ignition source, so it is critical that ATEX/IECEx certified computing devices are used in those areas. If they are not, the situation immediately poses great risk to workers’ safety. That’s why we’ve built rugged computing devices that are ATEX/IECEx certified.

## Meanings of Letters and Numbers



II 2G Ex ib IIC T6 Gb  
SIQ 23 ATEX 192 X

Issued certification marking for devices

**II** - Equipment Group

**2** - Equipment Category (Zone 1 & Zone 2)

**G** - Environment

**Ex** - Explosion Protection

**ib** - Type of Protection

**IIC** - Gas Group

**T6** - Temperature Class (T1 - T6)

**Gb** - Equipment Protection Level

**II:** There are two equipment groups - Group I, which concerns mines and is very restrictive due to the highly volatile methane gas and dust present, and **Group II**, which relates to all other above-ground industries.



Zones example

**2:** There are three area category types, with Category 1 requiring a very high level of protection and defined as an area having a permanent or prolonged risk of explosions (Zone 0), **Category 2** which requires a high level of protection and has a frequent risk of an explosive mix being present in the air (**Zone 1**), and Category 3, specified as requiring a normal level of protection with a small chance of an explosive mix forming (Zone 2).

**G:** This specifies the type of explosive atmosphere. D for dust and **G** for gases.

**Ex:** This means the equipment is explosion-proof.

**ib:** This indicates the type of protection. Intrinsic safety ("ib") is a technique used to ensure that electrical and electronic equipment can be used in explosive atmospheres without the risk of ignition.

**IIC:** This indicates the level of protection against specific types of explosive gases. Group **IIC** certification is the highest possible, so also covers the other levels.

**T6:** Different substances may combust at different temperatures. The lower the combustion temperature is, the more dangerous the substance is. Therefore, each piece of equipment used in an explosive environment is classified according to the maximum surface temperature it generates. The maximum surface temperature of the equipment should always be well below the ignition temperature of the gases present. If Max Surface Temperature of Equipment does not exceed 85 °C its certified for **T6** and is the highest possible rating, so also covers other classes.

**Disclaimer:**

*Test reports that are referenced in declarations and certificates can be provided upon request. For the request to be approved, the recipient of the test reports should be a certification authority or certified test house. The recipients will be asked to sign a non-disclosure agreement (NDA).*

**Attachments**

Certification number: BTSXXX

EN1 (EN1 number): BTSXXX

EN2 (EN2 number): BTSXXX