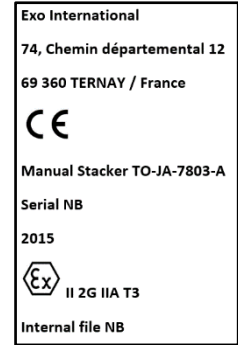
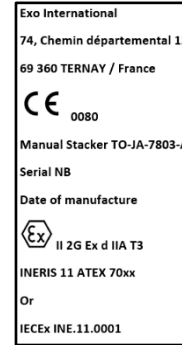


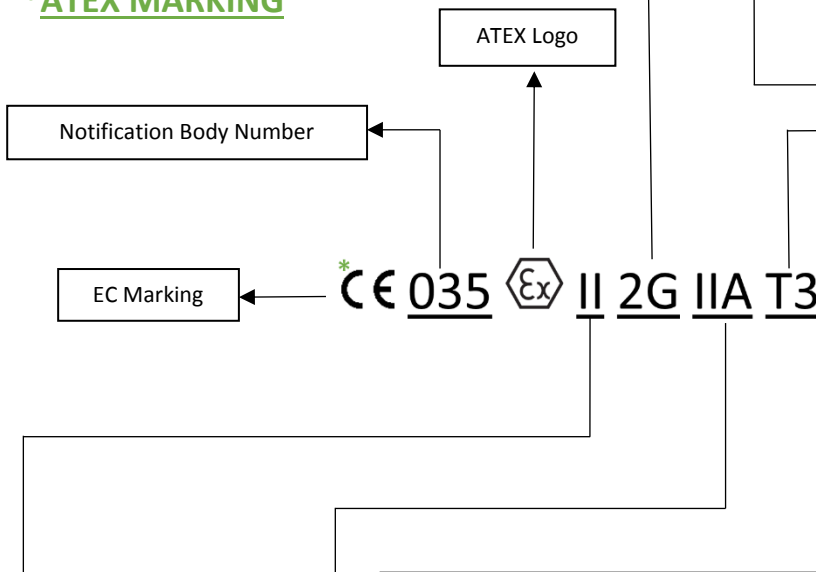
Marking and labelling in hazardous areas

| IECEx & ATEX Hazardous Area classification | | Area Description | Usable Equipment Category ATEX | Usable Equipment Protection Level (EPL) IECEx | Corresponding Protection Level |
|--|----|--|--------------------------------|---|--------------------------------|
| GAS | 0 | Explosive atmospheres are present continually or for long period or frequently. | 1G | Ga | Very high |
| | 1 | Explosive atmospheres are likely to occur under normal operations, occasionally | 2G or 1G | Gb or Ga | High |
| | 2 | Explosive atmospheres are not expected to occur under normal operations. Where they do occur, it will be for a short period only | 3G or 2G or 1G | Gc or Gb or Ga | Enhanced |
| DUST | 20 | Explosive atmospheres are present continually or for long period or frequently. | 1D | Da | Very high |
| | 21 | Explosive atmospheres are likely to occur under normal operations, occasionally | 2D or 1D | Db or Da | High |
| | 22 | Explosive atmospheres are not expected to occur under normal operations. Where they do occur, it will be for a short period only | 3D or 2D or 1D | Dc or Db or Da | Enhanced |



| Temperature class for gas (°C) | Temperature class for dust (°C) |
|--------------------------------|--|
| T1 = 450 | Calculated value according to dust material, dust size, cloud inflammation temperature & 5mm layer inflammation temperature. |
| T2 = 300 | |
| T3 = 200 | |
| T4 = 135 | |
| T5 = 100 | |
| T6 = 85 | |

*ATEX MARKING



***IECEx MARKING**
Ex IIA Gb T5

IECEx Logo

* IECEx MARKING

| Group | Definition | Subgroups | Definition | Example (Used as reference) |
|-------|--|-----------|--|--|
| I | Mine Industries | N/A | N/A | Methane |
| II | Surface Industries with explosive atmospheres from gases | IIA | Gases and Vapours assigned to one of them based on two criteria: -The explosive pressure they generate -The energy required to ignite them | Propane, Acetone, Hexane, Kerosene |
| | | IIB | | Ethylene, Acrylonitrile, Ethanol |
| | | IIC | | Acetylene, Hydrogen, Carbon Disulphide, Ethyl Nitrate |
| III | Surface Industries with explosive atmospheres from dust | IIIA | Combustible flyings (dust and fibres with nominal particle size >500 µm) | N/A |
| | | IIIB | Non-conductive Dusts (with resistivity greater than 1000 Ωm) | N/A |
| | | IIIC | Conductive Dusts (dusts with resistivity less than or equal to 1000 Ωm) | N/A |



As a standard, the minimum ambient temperature range is -20°C to +40°C for equipment intended to be used in hazardous area. All other value which reaches the minimum and maximum standard limits can be considered as an option and shall be specified on marking.