

Standards & Regulations

for Gas Detectors

Gas detectors are used to detect potential hazardous in the atmosphere, be they oxygen deficiency, toxic gas build-up or the accumulation of potentially explosive gas. Explosion protection is extremely important when dealing with flammable gases and vapours and this especially applies not only to equipment used in these areas, but also applies to the gas detectors themselves. Since gas detectors

are categorised as electrical equipment, they must fulfil the relevant requirements for operating in potentially explosive areas. Within the European Union, this is regulated by using the relevant harmonised European Directives. ATmosphere EXplosible is French for potentially explosive atmosphere. According to the ATEX manufacturer directive 2014/34/EU and user directive

1999/92/EC (ATEX 137) the electrical safety of all electronic gas detectors and personal monitors used in potentially explosive atmospheres must be tested and marked "ATEX" (EN 60079-0 et seq.). If the gas detector for flammable gases and vapours is used as a safety device "with a measuring function for explosion protection" it must be performance approved by a notified body in addition

to the "ATEX" marking. Correspondence with other globally accepted standards (e.g. wheel mark approval) must also be ensured during the construction of the electrical equipment. At MSA, we work tirelessly to build smarter, better gas detectors which people around the world can rely on.

