

S.P.O.T CERTIFICATION

The marking of the equipment is **Ex II 2 G EEx pm II T5**

- **Ex** EU Explosive atmosphere symbol.
- **II** Equipment group II surface industries (non-mining)
- **Category 2** equipment (High protection suitable for use in gas zone 1)
- **G** suitable for atmospheres containing gas
- **EEx – pm** - Electrical protection concept.
- **P** - purged & pressurised, Electrical equipment is housed in an enclosure which is initially purged to remove any explosive mixture, then pressurised to prevent ingress of the surrounding atmosphere prior to being energised.
- **m** – protection using encapsulation, a method of exclusion of the atmosphere by fully encapsulating the electrical components in an approved material.
- **II** - Gas group
- **T5** Temperature Class max surface temperature 100 degrees C.

Area Classification

Area classification is the division of a facility into three-dimensional hazardous areas and non-hazardous areas and the subdivision of the hazardous area into 'Zones'. Hazardous areas may be sub-divided into three Zones as follows:-

Flammable gases and vapour's		
European	North American	
Zone 0	Class I Division 1	An area in which an explosive atmosphere is constantly present, or present for long periods. (Rough Guide: More than 1,000 hours / year)
Zone 1	Class I Division 1	An area in which an explosive atmosphere is likely to occur in normal operation. (Rough Guide: 10 hours or more / year but less than 1,000 hours / year)
Zone 2	Class I Division 2	An area in which an explosive atmosphere is not likely to occur in normal operation and if it occurs, it will exist only for a short time. (Rough Guide: Less than 10 hours / year)