

Three elements are required to cause an explosion: Fuel (gas or dust), Oxygen and an ignition source such as electric sparks or a short-circuit.

The risk of an explosion is based on the probability of a fuel and oxygen mixture occurring over time.

CAUSES OF EXPLOSIONS

INDUSTRIAL ATEX ZONES

Oil & Gas

GAS **ATEX** ZONES

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	ZONE

There's a permanent or frequent presence of an explosive atmosphere.

An explosive atmosphere is expected

to occur occasionally during normal



DUSTATEX ZONES



operation.



ZONE

An explosive mixture of dust is likely to occur in normal operation.

An explosive mixture of dust

is continuously present or present for long periods.

An explosive mixture of dust is unlikely to occur in normal operation and if it does it will only be for a short period.

Exi - Intrinsic Safety - Barriers & Sensors Exe - Increased Safety - Terminal Boxes/Control Stations Exd - Flameproof - Control Panels/Terminal Boxes Exp - Purge and Pressurisation - Control Panels

PROTECTION **FOR ELECTRICAL** EQUIPMENT



KEMPSTON CONTROLS

For more information and support on ATEX Zones and the precautions you can take to protect yourself, Kempston Controls are the people to speak to. For more information call us on 01933 411 411.