



FirePro in potentially explosive atmospheres

During the UL listing procedure, FirePro has been tested, as per UL 2775, for use in explosive atmospheres UL2775, Section 26 “Pyrotechnic Reaction Containment Test”. FirePro has also been specifically certified under ATEX guidelines for hazardous environments.

The local authority has the responsibility for defining a Class, Zone, and Group classification for specific areas. The classification given to a particular zone, and its size and location, depends on the likelihood of an explosive atmosphere occurring and its persistence if it does.

Other than Category 3 equipment, the complete system, including panel, cabling and detection will probably require third party accreditation.

Equipment Group		Equipment Category	Protection Level	Presence or Duration of Explosive Atmosphere	Hazardous Area Zones
I	Underground Mines and Associated surface installations	M1	Very High	Constant Risk or Presence	
		M2	High	Constant Risk or Presence	
II	All Other Surface Installations	1	Very High	Continuous Presence	Zone 0 / Zone 20
		2	High	Likely to Occur	Zone 1 / Zone 21
		3	Normal	Unlikely to Occur	Zone 2 / Zone 22

Dusts		Gases, Vapours and Mists			
UL		ATEX	ATEX		UL
Category M1, M2 & 1 Equipment		FirePro ATEX Units required for this Category			
Class 2 Division 1	A place where an explosive or combustible dust in air is present continuously, or frequently.	Zone 20	Zone 0	Area in which a flammable atmosphere is continuously present or for long periods.	Class 1 Division 1
Category 2 Equipment		FirePro ATEX Units required for this Category			
Class 2 Division 1	A place in which an explosive atmosphere in the form of a cloud of combustible dust in air is likely to occur in normal operation occasionally.	Zone 21	Zone 1	Area in which a flammable atmosphere is likely to occur in normal operation Group A (Propane, Methane) Group B (Ethylene) Group C (Hydrogen) Group D (Propane)	Class 1 Division 1
Category 3 Equipment		Standard FirePro Units APPROVED for this Category			
Class 2 Division 2 	A place in which an explosive atmosphere in the form of a cloud of combustible dust is not normally present or will persist for a short period only.	Zone 22	Zone 2	Area in which a flammable atmosphere is not likely in normal operation, or will only exist for a short period Group A (Acetylene) Group B (Hydrogen) Group C (Ethylene) Group D (Propane)	Class 1 Division 2 

UL Classes for Ignitable Substance		UL Divisions for Operating Conditions	
Class 1	Flammable gas, vapours, and liquids.	Division 1	Flammable substances are continually present or are likely to exist under normal operating conditions.
Class 2	Combustible dusts.	Division 2	Flammable substances are not likely to exist under normal operating conditions.
Class 3	Ignitable fibres and flying's.		

ATEX Classifications

Zone 0	Area where an explosive atmosphere of gas, vapor or mist is present continuously or for long periods or frequently.
Zone 1	Area where an explosive atmosphere of gas, vapor or mist is likely to occur in normal operation occasionally.
Zone 2	Area where explosive atmosphere of gas, vapor or mist is not likely to occur in normal operation or will persist for a short period only.
Zone 20	Area where an explosive atmosphere of combustible dust in air is present continuously, or for long periods or frequently.
Zone 21	Area where an explosive atmosphere of combustible dust in air is likely to occur in normal operation occasionally.
Zone 22	Area where an explosive atmosphere of combustible dust in air is not likely to occur in normal operation or will persist for a short period only.