ATEX Directive 2014/34/EU



1

"Ex" symbol

The symbol or the marking "Ex" indicates that the equipment falls under the scope of the ATEX Directive 2014/34/EU.

2

Equipment group I:

Intended for use in underground mines and surface installations of such mines, liable to be endangered by firedamp and/or combustible dust.

Equipment group II:

Intended for use in other places liable to be endangered by explosive atmospheres.

3

Equipment category

Equipment category 1 = Very high level of protection – suitable for use in zones 0/20, 1/21, 2/22

Equipment category 2 = High level of protection – suitable for use in zones 1/21, 2/22

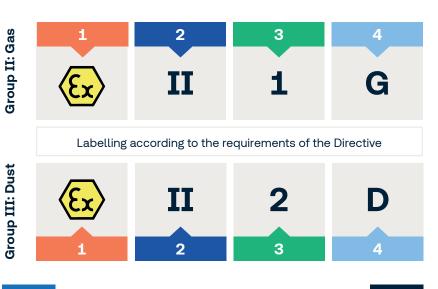
Equipment category 3 = Normal level of protection – suitable for use in zones 2/22

4

Type of explosive atmosphere:

G = Mixture of air and gases, vapours or mists

D = Mixture of air and dust or flyings





8

Equipment Protection Level (EPL)

EPL "Ga" corresponds to category 1G
EPL "Gb" corresponds to category 2G
EPL "Gc" corresponds to category 3G
EPL "Da" corresponds to category 1D
EPL "Db" corresponds to category 2D
EPL "Dc" corresponds to category 3D

7

Temperature class	Maximum surface temperature in °C	
T1	450	
T2	300	
Т3	200	
T4	135	
T5	100	
T6	85	
1 , ,	the maximum surface temperature , as mentioned at the example.	

6

Group	Definition		
IIA	Propane		
IIB	Ethylene		
IIC	Hydrogen		
IIIA	Combustible flyings		
IIIB	Non-conductive dust		
IIIC	Conductive dust		

5

Symbol	Standard
	EN 60079-0
d	EN 60079-1
р	EN 60079-2
q	EN 60079-5
0	EN 60079-6
е	EN 60079-7
i	EN 60079-11
n	EN 60079-15
m	EN 60079-18
ор	EN 60079-28
t	EN 60079-31
	EN ISO 80079-36
h	EN ISO 80079-37
h	EN ISO 80079-37
h	EN ISO 80079-37
	d