

Comparison of International markings required for IEC-based Gas Zone certifications

Markings Required for IEC-based Gas Zone Certifications				
	USA	Canada	IECEx Scheme	Europe
a)	Class I	---	---	---
b)	Zone 0, 1, 2	---	---	---
c)	AEx	Ex	Ex	Ex
d)	Protection method symbol(s)	Protection method symbol(s)	Protection method symbol(s)	Protection method symbol(s)
e)	IIA, IIB, IIC	IIA, IIB, IIC	IIA, IIB, IIC	IIA, IIB, IIC
f)	T1 – T6	T1 – T6	T1 – T6	T1 – T6

Key

- a) Indicates Flammable gases, vapors or liquids (Class I).
- b) Indicates likelihood that explosive atmosphere is present when the equipment is operating.
- c) Symbol for apparatus for explosive atmospheres.
- d) Indicates the method of protection(s) used to prevent ignition of the explosive atmosphere.
- e) Indicates the ignition-related properties of the explosive atmosphere.
- f) Indicates the maximum surface temperature of the equipment under operating conditions.

For comments or questions on this page, please contact hazloc@ul.com.

Comparison of International markings required for IEC-based Dust Zone certifications

Markings Required for IEC-based Dust Zone Certifications				
	USA	Canada	IECEX Scheme	Europe
a)	AEx	Not allowed	Ex	Ex
b)	Protection method symbol(s)		Protection method symbol(s)	Protection method symbol(s)
c)	20, 21, 22		20, 21, 22 (w/ or w/o "A" or "B" prefix)	20, 21, 22 (w/ or w/o "A" or "B" prefix)
d)	Max operating temp		Max operating temp	Max operating temp
e)	Ambient temperature		Ambient temperature	Ambient temperature

Key

- a) Symbol for apparatus for explosive atmospheres.
- b) Indicates the method of protection(s) used to prevent ignition of the explosive atmosphere.
- c) Indicates likelihood that explosive atmosphere is present when the equipment is operating.
- d) Indicates the maximum surface temperature of the equipment under operating conditions.
- e) Indicates the ambient temperature or temperature range.

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