

## Harmonisation Status of Electrical Ex Standards – June 2011

Protection Concept	Standard	Harmonisation Status	Use for ATEX	Use for IECEX
Gas/Vapour General Requirements	EN 50014:1997 (inc. amendments 1 & 2)	Withdrawn: Harmonisation expired April 2008	No	No
	EN 60079-0:2004 (IEC 60079-0:2004 Edition 4)	Never harmonised	No	No
	EN 60079-0:2006 (IEC 60079-0:2004 Ed 4 modified)	Contains non-technical amendments to fit the IEC standard for ATEX purposes, particularly relating to marking and instructions. Harmonised – Harmonisation expires June 2012	Possible	No
Gas/Vapour and Dusts General Requirements	EN 60079-0:2009 (IEC 60079-0:2007 Edition 5)	Harmonised	Yes	Yes
	IEC 60079-0:2011 Edition 6	EN due to be published soon followed by harmonisation, probably omitting the new clause on fans where there is a separate harmonised standard EN 14986:2007	Yes	Yes
Ex d	EN 50018:2000 (inc. amendment 1)	Harmonisation expired March 2007	No	No
	EN 60079-1:2004 (IEC 60079-1:2003 Edition 5)	Harmonisation expired July 2010	No	Possible
	EN 60079-1:2007 (IEC 60079-1:2007 Edition 6)	Harmonised	Yes	Yes
Ex p	EN 50016:2002	Never harmonised	No	No
	EN 60079-2:2004 (IEC 60079-2:2001 Edition 4)	Harmonisation expired November 2010	No	Possible
	EN 60079-2:2007 (IEC 60079-2:2007 Edition 5)	Harmonised	Yes	Yes
Ex q	EN 50017:1998	Harmonised – Harmonisation expires November 2010	Possible	No
	IEC 60079-5:1997 +Amd 1 (Ed 2.1)		No	Possible
	EN 60079-5:2007 (IEC 60079-5:2007 Edition 3)	Harmonised	Yes	Yes
Ex o	EN 50015:1998	Harmonisation expired May 2010	No	No
	IEC 60079-6:1995 Edition 2		No	Possible
	EN 60079-6:2007 (IEC 60079-6:2006 Edition 3)	Harmonised	Yes	Yes
Ex e	EN 50019:2000	Harmonisation expired June 2006	No	No
	EN 60079-7:2003 (IEC 60079-7:2001 Edition 3)	Harmonisation expired October 2009	No	Possible
	EN 60079-7:2007 (IEC 60079-7:2006 Edition 4)	Harmonised	Yes	Yes

Protection Concept	Standard	Harmonisation Status	Use for ATEX	Use for IECEX
Ex i	EN 50020:2002	Harmonisation expired October 2009	No	No
	IEC 60079-11:1999 Edition 4		No	Possible
	EN 60079-11:2007 (IEC 60079-11:2006 Edition 5)	Harmonised	Yes	Yes
Ex n	EN 50021:1999	Harmonisation expired June 2006	No	No
	EN 60079-15:2003 (IEC 60079-15:2001 Edition 2)	Harmonisation expired June 2008	No	No
	EN 60079-15:2005 (IEC 60079-15:2005 Edition 3)	Harmonised – Harmonisation expires May 2013	Possible	Possible
	EN 60079-15:2010 (IEC 60079-15:2010 Edition 4)	Harmonised	Yes	Yes
Ex m	EN 50028:1987	Never harmonised	No	No
	EN 60079-18:2004 (IEC 60079-18:2004 Edition 2)	Harmonised (inc. Corrigendum 2006) – Harmonisation expires October 2012	Possible	Possible
	EN 60079-18:2009 (IEC 60079-18:2009 Edition 3)	Harmonised	Yes	Yes
Ex i Systems	EN 50039:1980	Never harmonised	No	No
	EN 60079-25:2004 (IEC 60079-25:2003 Edition 1)	Harmonised – Harmonisation expires October 2013	Possible	Possible
	EN 60079-25:2010 (IEC 60079-25:2010 Edition 2)	Harmonised	Yes	Yes
Category 1G / Zone 0 Equipment / EPL Ga	EN 50284:1999	Harmonisation expired October 2009	No	No
	IEC 60079-26:2004 Edition 1		No	Possible
	EN 60079-26:2007 (IEC 60079-26:2006 Ed 2 modified)	Harmonised	Yes	Yes
Fieldbus (FISCO and FNICO)  (FISCO)	EN 60079-27:2006 (IEC 60079-27:2005)	Harmonisation expired April 2011	No	Possible
	EN 60079-27:2008 (IEC 60079-27:2008)	Harmonised	Yes	Yes
Optical Radiation	EN 60079-28:2007 (IEC 60079-28:2006)	Harmonised	Yes	Yes
Gas Detection Performance	EN 60079-29-1:2007 (IEC 60079-29-1:2007 Ed 1 Modified)	Harmonised Replaces all the EN 61779 series standards which expired November 2010	Yes	Yes
Open Path Gas Detector Performance	EN 60079-29-4:2010 (IEC 60079-29-4:2009 Ed 1 Mod.)	Harmonised Replaces EN 50241-1:1999 – Harmonisation expires April 2013	Yes	Yes
Trace Heating	EN 60079-30-1:2007 (IEC 60079-30-1:2007 Edition 1)	Harmonised Requirements previously in EN 60079-7:2003	Yes	Yes
Dust Protection by enclosure	EN 60079-31:2009 (IEC 60079-31:2008 Edition 1)	Harmonised With 60079-0 replaces 61241-1 and 61241-0	Yes	Yes
	EN 50281-1-1:1998	Harmonisation expired October 2008. Superseded by EN 61241-0 plus EN 61241-1	No	No

Protection Concept	Standard	Harmonisation Status	Use for ATEX	Use for IECEX
	IEC 61421-1-1:1999 Edition 1	Superseded by IEC 61241-0 plus IEC 61241-1 Never published as an EN	No	No
Dust General Requirements	EN 61241-0:2006 (IEC 61241-0:2004 Ed 1 modified)	EN version has both technical and non-technical amendment to the IEC text. Harmonised – Harmonisation probably expires June 2012 Superseded by latest edition of 60079-0 which combines gas and dust requirements	Possible	Possible
tD	EN 61241-1:2004 (IEC 61241-1:2004 Edition 1)	Harmonised – Harmonisation expires October 2012 Superseded by 60079-31	Possible	Possible
pD	EN 61241-4:2006 (IEC 61241-4:2001 Edition 1)	Harmonised	Yes	Yes
iD	EN 61241-11:2006 (IEC 61241-11:2005 Edition 1)	Harmonised Will be superseded by next edition of 60079-11 combining gas and dust requirements	Yes	Yes
mD	EN 61241-18:2004 (IEC 61241-18:2004 Edition 1)	Harmonised – Harmonisation expires October 2012 Superseded by the latest edition of 60079-18 combining gas and dust requirements	Possible	Possible
Miners' Caplights	EN 62013-1:2006 (IEC 62013-1:2005)	Harmonised Superseded 2002 edition – Harmonisation expired February 2009	Yes	Yes

Where certification is required for both ATEX and IECEX, it is usually desirable to use the latest published edition of a standard, even if it is not yet harmonised. Use of the IEC version ahead of publication of the EN version, where the text is expected to be technically identical, is justified according to the “state of the art” objectives given in the pre-amble to the Essential Health and Safety Requirements (Annex II) of the ATEX Directive 94/9/EC.

The rules of the IECEX Scheme allow for certification to the current published edition of a standard or the immediately preceding edition. This is intended to allow for certification to continue on products that had already been designed to the previous edition when the latest edition was published. In all cases, certification to the latest edition is encouraged.

The table above includes all relevant standards in the 60079 series and their related IEC and Cenelec previous versions, together with other standards published by or directly derived from standards published by IEC.

The following standards, published only by Cenelec, are also currently harmonised:

EN 50050:2006	Electrostatic Spraying – hand held
EN 50104:2010	Performance of Oxygen Detectors – (EN 50104:2002 plus A1 harmonisation expires June 2013)
EN 50176:2009	Electrostatic Spraying – Stationary – Liquids
EN 50177:2009	Electrostatic Spraying – Stationary – Powders
EN 50223:2010	Electrostatic Spraying – Stationary – Flock materials
EN 50241-1:1999	Open path gas detectors – general requirements - Harmonisation expires April 2013 – See EN 60079-29-4
EN 50241-2:1999	Open path gas detectors – performance - Harmonisation expires April 2013 – See EN 60079-29-4
EN 50271:2010	Detection of gasses – Requirements for software and digital technologies
EN 50303:2000	Category M1 Equipment (note that much of the material from here is now in the 60079 series standards but not yet all)
EN 50381:2004 plus corrig.	Transportable ventilated rooms
EN 50495:2010	Safety Devices required for safe functioning of equipment with respect to explosion risks

Also relevant is EN 13980:2002, published by CEN, covering QA aspects for Ex Equipment. This will be replaced shortly by EN 80079-34:2011 (currently available as ISO/IEC 80079-34)