

HARMONISATION STATUS OF SELECTED ELECTRICAL AND NON-ELECTRICAL Ex STANDARDS – MARCH 2018

This list is derived from the list of harmonised standards published in the Official Journal of the European Union (OJ) on 8 September 2017 with additional information relating to historical transitions between different editions of the harmonised standard and its predecessors, plus some forward looking information.

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 amendments 1 & 2)	Withdrawn: Harmonisation expired April 2008	No	No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 Edition 4 modified)	Contains non-technical amendments to fit the IEC standard for ATEX purposes, particularly relating to marking and instructions. Harmonisation expired June 2012	No	No
Gas/Vapour and Dusts General Requirements	EN 60079-0:2009 (IEC 60079-0:2007 Edition 5)	Harmonisation expired April 2015	No	No
	IEC 60079-0:2011 Edition 6 EN 60079-0:2012 (Minor corrigendum issued June 13)	The EN version omits the clauses on fans (where there is a separate harmonised standard EN 14986:2007). Harmonisation has been delayed because of issues on the status (Normative or Informative) for some of the text in Annex ZY and information in Annex ZZ. For most purposes, it can be used as if it is harmonised.	No (see below)	Possible
	EN 60079-0:2012 + A11:2013	Harmonised version of IEC 60079-0:2011 Edition 6 with all the ATEX aspects now agreed. Note that the OJ lists the 2012 edition and the 2013 amendment separately but the intention is that only the version incorporating the amendment should be regarded as harmonised.	Yes(except in relation to fans)	Yes
	IEC 60079-0:2017 Edition 7	Awaiting publication of EN version. IEC version, read in conjunction with Annex ZY of current EN version may be considered «state of the art».	Yes (except in relation to fans)	Yes

Ex d	IEC 60079-0:2017 Edition 7	Awaiting publication of EN version. IEC version, read in conjunction with Annex ZY of current EN version may be considered «state of the art».	Yes (except in relation to fans)	Yes
	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	No
	EN 60079-1:2007 (IEC 60079-1:2007 Edition 6)	Harmonisation expired August 2017	No	Possible
	EN 60079-1:2014 (IEC 60079-1:2014 Edition 7)	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	No
	EN 60079-2:2007 (IEC 60079-2:2007 Edition 5)	Harmonisation expired August 2017	No	Possible
	EN 60079-2:2014 (IEC 60079-2:2014 Edition 6)	Harmonised	Yes	Yes
Ex q	EN 50017: 1998	Harmonisation expired November 2010	No	No
	IEC 60079-5:1997 +Amd 1 (Edition 2.1)		No	No
	EN 60079-5:2007 (IEC 60079-5:2007 Edition 3)	Harmonisation expected to expire March 2018	Yes	Possible
	EN 60079-5:2015 (IEC 60079-5:2015 Edition 4)	Harmonised	Yes	Yes
Ex o	EN 50015:1998	Harmonisation expired May 2010	No	No
	IEC 60079-6:1995 Edition 2		No	No
	EN 60079-6:2007 (IEC 60079-6:2006 Edition 3)	Harmonisation expected to expire March 2018	Yes	Possible
	EN 60079-6:2015 (IEC 60079-6:2015 Edition 4)	Harmonised	Yes	Yes

Ex e	EN 50019:2000	Harmonisation expired October 2009	No	No
	EN 60079-7:2003 (IEC 60079-7:2001 Edition 3)	Harmonisation expired October 2009	No	No
	EN 60079-7:2007 (IEC 60079-7:2006 Edition 4)	Harmonisation expected to expire July 2018	Yes	Possible
	EN 60079-7:2015 (IEC 60079-7:2015 Edition 5)	Harmonised	Yes	Yes
Ex i	EN 50020:2002	Harmonisation expired October 2009	No	No
	IEC 60079-11:1999 Edition 4		No	No
	EN 60079-11:2007 (IEC 60079-11:2006 Edition 5)	Harmonisation expired August 2014	No	Possible
	EN 60079-11:2012 (IEC 60079-11:2011 Edition 6)	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)	Harmonisation expired May 2013	No	No
	EN 60079-15:2010 (IEC 60079-15:2010 Edition 4)	Harmonised, but parts of the standard are now moved to 60079-1 (Ex dc), 60079-7 (Ex ec), 60079-11 (Ex ic) and 60079-18 (Ex mc). These standards should be used in preference.	Yes	Possible, particularly for Ex nA
	IEC 60079-15:2017 Edition 5	A slimmed down version of the standard with much of the content removed. The EN version should be published shortly.	Yes	Yes
Ex m	EN 50028:1987	Never harmonised	No	No
	IEC 60079-15:2017 Edition 5	A slimmed down version of the standard with much of the content removed. The EN version should be published shortly.	Yes	Yes
	EN 60079-18:2004 (IEC 60079-18:2004 Edition 2)	(inc. Corrigendum 2006) – Harmonisation expired October 2012	No	No
	EN 60079-18:2009 (IEC 60079-18:2009 Edition 3)	Harmonisation expired January 2018	No	Possible
	EN 60079-18:2015 (IEC 60079-18:2014 Edition 4)	Harmonised	Yes	Yes
Ex i Systems	EN 50039:1980	Never harmonised	No	No
	EN 60079-25:2004 (IEC 60079-25:2003 Edition 1)	Harmonisation expired October 2013	No	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	No
	EN 60079-26:2007 (IEC 60079-26:2006 Edition 2 modified)	Harmonisation expired December 2017	No	Possible
	EN 60079-26:2015 (IEC 60079-26:2014)	Harmonised	Yes	Yes
Fieldbus (FISCO and FNICO)	EN 60079-27:2006 (IEC 60079-27:2005)	Harmonisation expired April 2011	No	No
Fieldbus (FISCO)	EN 60079-27:2008 (IEC 60079-27:2008)	Harmonisation expired Equipment requirements superseded by 60079-11:2012. System requirements remain valid	No	For the system requirements only
Optical Radiation	EN 60079-28:2007 (IEC 60079-28:2006)	Harmonisation expected to expire July 2018	Yes	Possible
	EN 60079-28:2015 (IEC 60079-28:2015)	Harmonised	Yes	Yes
Gas Detection Performance	EN 60079-29-1:2007 (IEC 60079-29- 1:2007 Edition 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 Edition 1 Modified)	Harmonised replaces EN 50241-1:1999 – Harmonisation expired 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 Harmonisation expected to expire March 2020	Yes	Yes
	EN 60079-30-1:2017 (IEC/IEEE 60079-30- 1:2015)	The IEC/IEEE text contains additional information relating to Division systems for North America that is missing from the EN version	Yes	Yes
Dust Protection by enclosure	EN 50281-1-1:1998	Harmonisation expired October 2008. Superseded by EN 61241-0 plus EN 61241-1	No	No
	IEC 61421-1-1:1999 Edition 1	Superseded by IEC 61241-0 plus IEC 61241-1 Never published as an EN	No	No
	EN 60079-31:2009 (IEC 60079-31:2008 Edition 1)	Harmonised with 60079-0 replaces 61241-1 and 61241-0. Harmonisation expired January 2017	No	Possible
	IEC 60079-31:2013 EN 60079-31:2014	Harmonised	Yes	Yes
Dust General Requirements	EN 61241-0:2006 (IEC 61241-0:2004 Edition 1 modified)	EN version has both technical and non-technical amendment to the IEC text. Harmonisation expired June 2012. Superseded by latest edition of 60079-0 which combines gas and dust requirements	No	No
tD	EN 61241-1:2004 (IEC 61241-1:2004 Edition 1)	Harmonisation expired October 2012. Superseded by 60079-31	No	No
pD	EN 61241-4:2006 (IEC 61241-4:2001 Edition 1)	Harmonisation expired. Superseded by the latest edition of 60079-2	No	No
iD	EN 61241-11:2006 (IEC 61241-11:2005 Edition 1)	Harmonisation expired August 2014. Superseded by latest edition of 60079-11 combining gas and dust requirements	No	Possible
mD	EN 61241-18:2004 (IEC 61241-18:2004 Edition 1)	Harmonisation expired October 2012. Superseded by the latest edition of 60079-18 combining gas and dust requirements	No	Possible

Miners' Caplights	EN 62013-1:2006 (IEC 62013-1:2005)	Harmonisation expired June 2014. Superseded 2002 edition – Harmonisation expired February 2009	No	Possible
	EN 60079-35-1:2011 (IEC 60079-35-1:2011)	Harmonised	Yes	Yes
Ex s Special Protection	IEC 60079-33:2012	The intention of this international standard is to allow certification of equipment that cannot comply with any of the standardised forms of protection but can yet be judged to be equally safe. It is not used for ATEX as there is the potential to comply directly with the EHSRs.	No	Yes
Non-Electrical Equipment – General Requirements and Ignition Hazard Assessment	EN ISO 80079-36:2016	Harmonised. This is the first publication of an international standard for non-electrical equipment and supersedes EN 13463-1:2009 which remains harmonised until October 2019 but cannot be used for IECEx	Yes	Yes
Non-Electrical Equipment – Protection Methods: "c", "b" and "k"	EN ISO 80079-37:2016	Harmonised. This is the first publication of an international standard giving protection concepts for non-electrical equipment. It supersedes the following three European standards which remain harmonised until October 2019 but cannot be used for IECEx: EN 13463-5:2011 "c" EN 13463-6:2005 "b" EN 13463-8:2003 "k"	Yes	Yes

The following standards, published only by Cenelec, are also currently harmonised or have recently ceased to be harmonised:

EN 50050 Parts 1-3:2013	Electrostatic Spraying – hand held – (EN 50050:2006 harmonisation expired October 2016)
EN 50104:2010	Performance of Oxygen Detectors – (EN 50104:2002 plus A1 harmonisation expired June 2013)
EN 50176:2009	Electrostatic Spraying – Stationary – Liquids
EN 50177:2009 plus A1 2012	Electrostatic Spraying – Stationary – Powders
EN 50223:2010	Electrostatic Spraying – Stationary – Flock materials
EN 50241-1:1999	Open path gas detectors – general requirements – Harmonisation expired April 2013 – See EN 60079-29-4
EN 50241-2:1999	Open path gas detectors – performance – Harmonisation expired 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

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 or ISO 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-ambles to the Essential Health and Safety Requirements (Annex II) of the ATEX Directive 2014/34/EU.

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 80079 series, and their related IEC, ISO, Cenelec and CEN previous versions, together with other standards published by or directly derived from standards published by IEC and ISO.

Also relevant is EN 80079-34:2011 which replaced EN 13980:2002, published by CEN, covering QA aspects for Ex Equipment. This is also available as ISO/IEC 80079-34

There are a few other electrical standards not in common usage and many non-electrical standards which are not included above.

The complete list of harmonised standards are available from the European Commission's web site at:

http://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/equipment-explosive-atmosphere/index_en.htm

SGS IS THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY

WHEN YOU NEED TO BE SURE

