



# REFERENCE STANDARDS UPDATE

Tres Cantos, 23rd of November of 2015

# REFERENCE STANDARDS UPDATE



STANDARD	REPLACED BY	DOW <sup>1</sup>
EN 50130-4:2011	EN 50130-4:2011/ A1:2014	11/08/2017
EN50133-1:1996/A1:2002	EN 60839-11-1:2014	12/06/2016
EN50133-2-1:2000	EN 60839-11-1:2014/ AC:2015	12/06/2016
EN 50136-1-1:1998/ A1:2002/ A2:2008	EN 50136-1:2012	26/12/2014
EN 50136-1-5:2008	EN 50136-1:2012	26/12/2014
EN 50136-2-1:1998/A1:2001	EN 50136-2:2013	13/08/2016
EN50136-2-3:1998	EN 50136-2:2013	13/08/2016
	EN 50131-10:2014	10/03/2017
EN 50131-6:2008	EN 50131-6:2008/ A1:2014	17/03/2017

**DOW (Date of Withdrawal):** Latest date by which national standards conflicting with the document have to be withdrawn.

# ELECTROMAGNETIC COMPATIBILITY IMMUNITY



STANDARD	REPLACED BY	DOW
EN 50130-4:2011	EN 50130-4:2011/ A1:2014	11/08/2017

- **Changes summary:**
- Clarification of the functional test depending whether there is a product standard or not.
- Voltage dips test, during 100% voltage reduction, power faults indications are allowed.
- During radiated electromagnetic fields test, remove the devices which supervise external environmental signals which appears typically in frequencies lower than 10 Hz of the additional application of pulses modulated signal. It is said that in future modifications it might be requested other devices pulse modulation.
- During conducted electromagnetic fields perturbation test, remove the devices which supervise external environmental signals which appears typically in frequencies lower than 10 Hz of the additional application of pulses modulated signal. It is said that in future modifications it might be requested other devices pulse modulation.
- During test the unit under test status shall be according to EN 61000-4-6.

# ELECTROMAGNETIC COMPATIBILITY IMMUNITY



STANDARD	REPLACED BY	DOW
EN 50130-4:2011	EN 50130-4:2011/ A1:2014	11/08/2017

- **Conclusion:**
- The modifications do not affect to the previous assessed devices.
- No additional tests are required.
- After document each product file, certificate can be updated.

# ACCESS CONTROL

STANDARD	Replaced by	DOW
EN50133-1:1996/A1:2002	EN 60839-11-1:2014	12/06/2016
EN50133-2-1:2000	EN 60839-11-1:2014/ AC:2015	12/06/2016

- **Changes summary**
- Standard EN 60839-11-1 has replaced , EN 50133-1 and EN 50133-2-1 regarding Control Access Systems and Components.
- This standard includes the Control Access Systems classification in the same way as Intrusion and hold-up alarm systems does:
  - Grade 1. Low risk.
  - Grade 2. Low-moderated risk.
  - Grade 3. Moderated- high risk.
  - Grade 4. High risk.
- Hence, all the functional requirements are reorganized in order to achieve the desired security grade, in such way that functional requirements for a system grade 3 are more severe tan those for a system grade 2.

# ACCESS CONTROL

STANDARD	Replaced by	DOW
EN50133-1:1996/A1:2002	EN 60839-11-1:2014	12/06/2016
EN50133-2-1:2000	EN 60839-11-1:2014/ AC:2015	12/06/2016

- Functional requirements have been updated accordingly to current technical developments: Surveillance, acknowledge, communication, self-protection, power supply, etc.
- Standard EN 60839-11-1 has defined the required environmental test in order to comply with the different environmental class (from class I to class IV), equivalents to those required for IHAS products.
- The reference standard for environmental tests is IEC 62599-1, equivalent to EN 50130-5.

# ACCESS CONTROL

STANDARD	Replaced by	DOW
EN50133-1:1996/A1:2002	EN 60839-11-1:2014	12/06/2016
EN50133-2-1:2000	EN 60839-11-1:2014/ AC:2015	12/06/2016

- The reference standard for EMC immunity tests is IEC 62599-2, equivalent to EN 50130-4.
- Definitions and acronyms have been updated accordingly to current technical developments.
- **Conclusion**
- Functional tests must be performed to update previously certified products.

# ALARM TRANSMISION

STANDARD	Replaced by	DOW
EN 50136-1-1:1998/ A1:2002/ A2:2008	EN 50136-1:2012	26/12/2014
EN 50136-1-5:2008	EN 50136-1:2012	26/12/2014
EN 50136-2-1:1998/A1:2001	EN 50136-2:2013	13/08/2016
EN50136-2-3:1998	EN 50136-2:2013	13/08/2016

- **Changes summary:**
- The reference standards have been updated to the versions in force.
- Definitions have been updated.
- New Alarm Transmission System categories have been set up. There is no direct link with older ones either with Security Grade. Requirements have been updated accordingly to these new categories.
- New test included.
- The scope and application have been modify in order to unify the standards EN 50136-2-2, 2-3 & 2-4, and to get compatibility between Alarm transmission systems for IHAS, fire detection and Social Alarm. Also the title has changed to include these systems.



# TRANSMISIÓN DE ALARMAS

STANDARD	Replaced by	DOW
EN 50136-1-1:1998/ A1:2002/ A2:2008	EN 50136-1:2012	26/12/2014
EN 50136-1-5:2008	EN 50136-1:2012	26/12/2014
EN 50136-2-1:1998/A1:2001	EN 50136-2:2013	13/08/2016
EN50136-2-3:1998	EN 50136-2:2013	13/08/2016

- **Conclusion:**
- Functional tests must be performed to update previously certified products.

# ALARM TRANSMISSION

STANDARD	Replaced by	DOW
EN 50131-10:2014		10/03/2017

- **New standard:**

- The EN 50136 standards latest revision removed the link between the alarm transmission features and the security grades set in the standards EN 50131. This new standard, EN 50131-10, set the SPT requirements regarding security grade as tampering, replacement detection, Wireless interconnections and power supply. All this requirements come from EN 50131-1
- This standard introduces SPT classification depending on its building:
  - X: Stand-alone device installed in its own housing.
  - Y: Stand-alone device ready to be installed inside other component enclosure (i.e. CIE or PS)
  - Z: SPT built-in CIE, it cannot be operated in stand-alone configuration.
- This standard refers to EN 50131-1 to define the SPT environmental class, EN 50130-5 regarding environmental testing and EN 50130-4 for EMC testing.

- **Conclusion:**

- SPT must comply with this standard on DOW as latest.

# POWER SUPPLY



STANDARD	Replaced by	DOW
EN 50131-6:2008	EN 50131-6:2008/ A1:2014	17/03/2017

- **Changes summary:**
- **Requirements**
- EN 60065, EN 60950 and EN 61000-6-3 are removed from Normative reference clause. In this clause EN 60068-2-14 and 60068-2-75 are included.
- Figure 1 is modified: description of SD in PS type B: SD replacement or non-continuous recharge power supply for SD not charged through IHAS.
- When Table 2 additional features exist, they must comply with the highest security grade requirements.
- Loss of EPS: Detection and indicating timing change:
  - Detection; instead of less than 1s, the condition must be detected in less than 10s
  - Recovery indication: failure signal or message must be removed when EPS has been connected at least 1s
  - EPS loss or recovery indication must be done in less than 60s

# POWER SUPPLY

STANDARD	Replaced by	DOW
EN 50131-6:2008	EN 50131-6:2008/ A1:2014	17/03/2017

- Besides reset the protection against shortcut, it is allowed replace them following removal of the short circuit condition.
- Tamper security: new requirements regarding impact resistance (IK grade) according EN 62262.
- Tamper detection: when there is wireless interconnection with CIE it is mandatory for grade 2 and upper removal for mounting detection, and penetration to housing detection is mandatory whereas the PS is installed outside the supervised premises.
- Tamper detection - Access to the inside of housing: new tools are applied to test this requirement compliance.
- Removal from mounting: Details all dimensions of the blade, not only the thickness. Also it is included that the tamper detection should not be neutralize by using tweezers of 5mm thick and 150mm scope.

# POWER SUPPLY



STANDARD	Replaced by	DOW
EN 50131-6:2008	EN 50131-6:2008/ A1:2014	17/03/2017

- Environmental tests: The application of the reduced functional test has changed for several tests. The free fall test now is mandatory for portable devices.
- The electrical safety and EMC clauses have been removed, despite they still are general requirements.
- Marking clause: the reference to safety is removed, and it is added that marking shall be done according to the information required by the regulatory directives of the European Commission.
- Documentation clause: if the power supply is suitable for use out of the supervised premises it must indicated in the documentation.

# POWER SUPPLY

STANDARD	Replaced by	DOW
EN 50131-6:2008	EN 50131-6:2008/ A1:2014	17/03/2017

- **Tests**
- Loss of EPS test is modified according to the requirements change.
- SD charge clause: For Security Grade 4 the reference to standard 60068-2-14:2009 is added regarding the temperature cycles during the test, also it is added a table with the conditioning parameters and the measurement method.
- Shortcut protection test condition is modified according to the requirements change.
- Standard EN 60068-2-75 is included as a reference for impact test. Severity depending on the security grade is added. The acceptance criteria is modified according to the requirements change.

# POWER SUPPLY



STANDARD	Replaced by	DOW
EN 50131-6:2008	EN 50131-6:2008/ A1:2014	17/03/2017

- The detection of access to the inside of the housing test is modified according to the requirements change.
- The detection of removal from mounting test is modified according to the requirements change.
- Details regarding principle and mounting of the detection of penetration of the housing are provided.
- Acceptance criteria regarding environmental and EMC tests are modified according to the requirements change.
- **Conclusion:**
- Functional tests must be performed to update previously certified products.

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THANK YOU