

INTERNATIONAL ELECTROTECHNICAL COMMISSION

IEC 60079-14
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EXPLOSIVE ATMOSPHERES –

Part 14: Electrical installations design, selection and erection

INTERPRETATION SHEET 2

This interpretation sheet has been prepared by subcommittee 31J: Classification of hazardous areas and installation requirements, of IEC technical committee 31: Equipment for explosive atmospheres.

The text of this interpretation sheet is based on the following documents:

DISH	Report on voting
31J/302/DISH	31J/303/RVDISH

Full information on the voting for the approval of this interpretation sheet can be found in the report on voting indicated in the above table.

Background

With changes to the Type of Protection designations in the IEC 60079 Series, a number of these Type of Protection designations are not identified in the current edition of IEC 60079-14. This may create confusion for end users regarding the correct application of equipment with these Types of Protection.

Question

How should equipment be marked with new Type of Protection designations be handled in accordance with IEC 60079-14?

Interpretation

Equipment marked with new Type of Protection designations shall be applied in accordance with IEC 60079-14 requirements based on the following points and IEC 60079-14:2013, Table 2.

- Ex "eb" should be treated as equivalent to Ex "e"
- Ex "ec" should be treated as equivalent to Ex "nA"
- Ex "db" should be treated as equivalent to Ex "d"
- Ex "dc" requirements should be based on Ex "d" requirements but is only suitable for EPL Gc
- Ex "ob" should be treated as equivalent to Ex "o"
- Ex "oc" requirements should be based on Ex "o" requirements but is only suitable for EPL Gc