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Intrinsic Safety

"Ex i" EN 50020:2002 vs EN 60079-11:2007

Background Information

EN 50020:2002, which replaced EN 50020:1994 as the harmonised standard in 2003, ceases to have harmonised status under the ATEX Directive in October 2009. The purpose of this data sheet is to give some guidance when considering equivalence to EN 60079-11:2007 which replaces it as a harmonised standard.

EN 50020:2002 was not a full technical revision of the standard and had only minor differences to EN 50020:1994 e.g. 'category' changed to 'level of protection' and new Annex E added.

Not all equipment is affected by every difference, and it may be that some items of equipment which meet EN 50020:2002 also meet the relevant requirements of EN 60079-11:2007. The principal differences are listed alongside, although there are many more minor differences which are not listed.

Required Actions

1. If you are satisfied that none of the changes apply to your product, record that fact within the technical file (i.e. the set of documentation including the EC-Type Examination Certificate and associated report) and amend your Declaration of Conformity to show that the technical basis of compliance with the EHSRs of the directive is EN50020 plus a review against EN 60079-11:2007 which showed that there were no changes which materially affected the "state of technological progress" with respect to the product. (See the words in the pre-ample to Annex II of the directive.)

2. If you are not sure whether or not the changes apply to your product, seek advice from Baseefa. There is a standard price for this service, with two possible outcomes

2.a If the changes are not relevant, we will issue a supplement to the EC-Type Examination Certificate that we have issued, showing that conformity with the Essential Health and Safety Requirements of the directive is maintained.

2.b If the changes are relevant, we will provide a list of all relevant changes together with a quotation for performing any necessary tests in order to bring your documentation up to date. We will also provide advice on the options of issuing a supplementary certificate or providing a new certificate within both the IECEx and ATEX schemes.

- ✓ **Level of protection "ic" introduced for Category 3 (Zone 2) equipment**
- ✓ **Reduced separation distances when the pollution degree has been reduced by installation or enclosure – Annex F**
- ✓ **New transient tests for the let-through energy during crowbar operation**
- ✓ **Introduction of infallible connection methods for small SMD's (surface mount devices) on PCB's**
- ✓ **Minor changes in the table of 'Temperature classification of tracks on PCB's'**
- ✓ **New test to measure the maximum pressure in sealed battery containers**
- ✓ **Guidance to assess the reduction of effective capacitance when protected by series R**
- ✓ **Alternative methods to deal with spark ignition energy in circuits with C and L**
- ✓ **Alternative high voltage tests for transformers**
- ✓ **Alternative method of rating resistors when used to limit capacitive discharge**

Remember that Declarations of Conformity should not refer to EN 50020:1994 (or EN50020:2002 after October 2009) as a harmonised standard.

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