

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**IEC 60079-29-1**  
Edition 2.0 2016-07

**EXPLOSIVE ATMOSPHERES –**

**Part 29-1: Gas detectors –  
Performance requirements of detectors for flammable gases**

**INTERPRETATION SHEET 1**

This interpretation sheet has been prepared by IEC technical committee 31: Equipment for explosive atmospheres.

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

DISH	Report on voting
31/1456/DISH	31/1462/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.

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In accordance with Administrative Circular AC/42/2004: New procedures for interpretation of standards, Annex 2: New text for ISO/IEC Directives (IEC Supplement), there has been a request for formal interpretation of the Air Velocity test acceptance criterion in the performance standard IEC 60079-29-1:2016.

**Question:**

Is the acceptance criteria for the Air Velocity test to be assessed based upon variation from the 0 m/s reading?

**Interpretation:**

Some of the performance tests are intended to be an accuracy based assessment from the applied gas concentration (eg. Short Term Stability and Calibration Curve). Other performance tests are intended to be a variation based assessment from a known baseline (eg. Baseline at 20 °C for Temperature test and baseline at 100 kPa for Pressure test).

In review of the air velocity acceptance criteria, the format is the same as the Short Term Stability and Calibration Curve and therefore this is intended to be an accuracy based assessment.