Analyser Reference System
Type ARS 16

Harmonic Analysis / Flicker Analysis

Testing according to:

IEC 61000-3-2-am 1 (2001-08) Ed. 2.0
IEC 61000-3-2-am 2 (2004-10) Ed. 2.0
IEC 61000-3-2 (2004-11) Ed. 2.2
IEC 61000-3-3-am 1 (2001-01) Ed. 1.0
IEC 61000-3-3 (2002-03) Ed. 1.1
IEC 61000-3-11 (2000-08) Ed. 1.0
IEC 61000-3-12 (2004-11) Ed. 1.0

Special features:

- ✓ **"Double FFT for simultaneous check of the source during the EUT measurement" in harmonic analysis**
- ✓ **Simultaneous two-channel measurement for source check (flicker measurement)**
- ✓ **Calibratable Line Impedance Simulating Network meets IEC 60725 (2004)**
- ✓ **Digital flickermeter already meets IEC 61000-4-15 (2003-02) Ed. 1.1**
- ✓ **Real-time Harmonic Analyser already meets IEC 61000-4-7 (2004-07) Ed. 2.0**

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The **A**nalyser **R**eference **S**ystem type **ARS** contains the core of the well known and reliable analyser (Ducati/Boconsult B10) for the measurement part, the standard impedance according to IEC 60725 as well as a phase- and current range switching. It allows **harmonics** measurements according to IEC 61000-3-2 and **flicker** measurement according to IEC 61000-3-3. All the required diagram connections for the two types of measurement are performed automatically by **ARS** without any manual operation: this increases the reliability of the measurement avoiding any possible wiring error of the operator and ensures fast and reasonable operation with the test system. In fact, flicker and harmonics measurement can be performed automatically in succession with the EMC test software. Thereby, the standard impedance switches uninterrupted between both measurement modes. In addition, the current ranges of the harmonics measurement are switched overlapping.

ARS is a highly integrated component, including the 3 above mentioned functions in 1 box, thus providing a compact and reasonable solution, without any loss of our high measurement quality in the low-frequency EMC field.

The inside measuring module is already compliant to the latest IEC standard amendments, including the new **harmonics** measuring technique prescribed by IEC 61000-4-7 Ed. 2.0, with 200ms time windows and grouping inter-harmonics function, as well as the new IEC 61000-4-15 Ed. 1.1 **flicker** algorithm for 60Hz mains devices.

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