Basic EMC System

for measurements according to the basic standards of the EMC directive

The relating standards:

emission:
IEC/EN 61000-3-2
IEC/EN 61000-3-3
IEC/EN 61000-3-11
IEC/EN 61000-3-12

immunity:
IEC/EN 61000-4-4
IEC/EN 61000-4-5
IEC/EN 61000-4-7
IEC/EN 61000-4-8
IEC/EN 61000-4-11
IEC/EN 61000-4-13
IEC/EN 61000-4-14
IEC/EN 61000-4-17
IEC/EN 61000-4-27
IEC/EN 61000-4-28
IEC/EN 61000-4-29
IEC/EN 61000-4-34

IEC/EN 60146-1-1
IEC/EN 61000-2-2
IEC/EN 61131-2
IEC/EN 61496-1
IEC/EN 61800-3
IEC/EN 62040-2

SEMI F47-0706

The “Basic EMC System” is the fully compliant turnkey system for all line conducted Emission and Immunity tests according to the EMC directive.

Above and beyond the standards the “Basic EMC System” is a universal grid simulation and measurement system for voltage, frequency and phase symmetry simulation.

On the other hand, the sources of the “Basic EMC System”, the PAS amplifiers are the reference sources for many applications. Their technical performance and advantages like low THD, very fast rise and fall time, stability and power capability are unique on the market.

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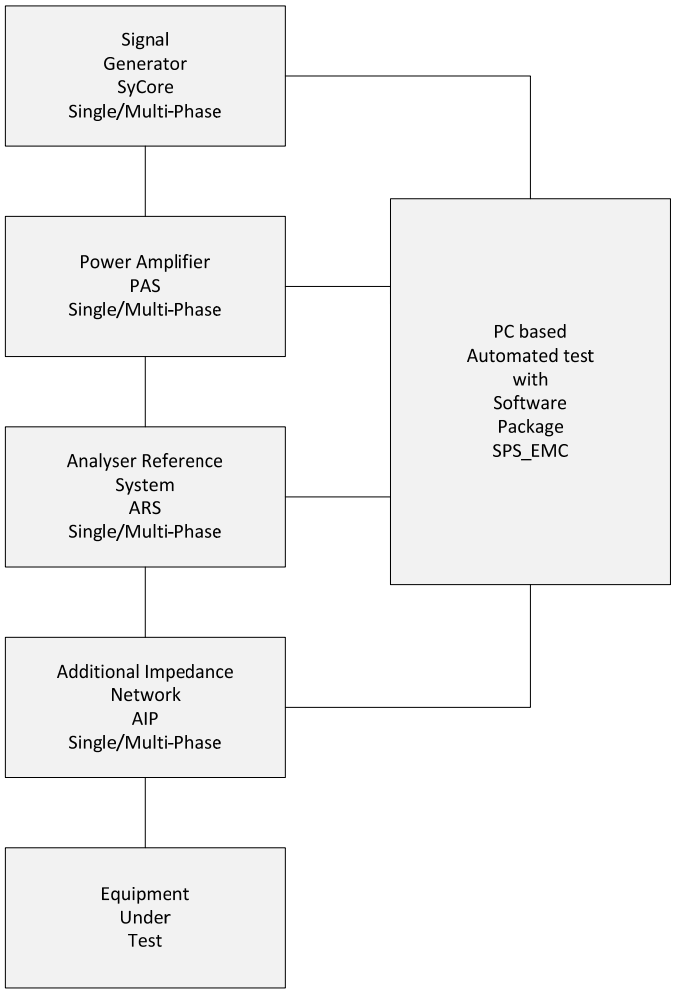
THE PRINCIPLE DIAGRAM:



The main components of the "Basic EMC System":

- *signal generator unit **SyCore***
- ***PAS** power amplifier*
- *analyser reference system **ARS** including reference impedance harmonic analyser flickermeter*
- *Additional impedance network **AIP***
- *Software package **SPS_EMC***

All components are available for single phase and multi-phase testing.

OPTIONS AND ADD-ONS:

- Pulse generator CE-tester for testing burst and surge pulses according to IEC/EN 61000-4-4 and IEC/EN 61000-4-5
- Magnetic field coils for testing the immunity against radiated magnetic fields with power line frequencies

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THE “BASIC EMC SYSTEM”

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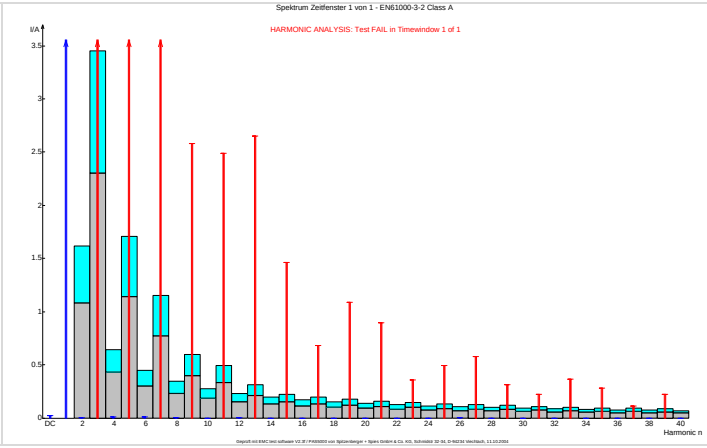
MAGNETIC FIELD COILS TYPE I AND TYPE II

EVALUATION WITH SPS_EMC

Measured harmonic currents in relation to the maximum limits according to the IEC/EN 61000-3-2



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