

Application Note: Change to Burst / EFT Basic Standard IEC/EN 61000-4-4 (Edition1) Amendment 2

Introduction

From the 1. July 2004 (Date of Withdrawal), EN 61000-4-4:1995/A2:2001 must be complied with.

The most important change concerns verification of the EFT generator.

The current version of the standard requires verification of the EFT generator using only a 50 Ohm load.

Amendment 2 requires, that the impulse form should also be verified using a 50 AND 1000 Ohm load.

It has always been Haefely policy to build instruments that have a long service life and as far as possible can be easily adapted to meet any future standard changes. This policy is aimed to secure the investment made by our customers in test instrumentation. Verification of an EFT generator using a 1000 Ohm load has already been under discussion within the responsible standards working group at the IEC for approximately 15 years.

Because Haefely are represented in these IEC working Groups, the design of its EFT generators has, even from an early stage, already incorporated these proposals.

Because of this, it is possible to state that all Haefely EFT generators delivered within the last 12 years, (PEFT.1 with PHV 41.2 and 42.1, PEFT JUNIOR und PEFT 4010) already conform to the requirements of amendment 2 and as such can continue to be used after 1. July 2004.

Conformance with amendment 2 can easily be checked by the user.

Verification of an EFT generator requires an oscilloscope with at least 400MHz bandwidth together with new 50 Ohm and 1000 Ohm test load impedances.

A complete set of the new test load impedances as specified in amendment 2, including BNC cables and an application note are available from Haefely.

Basel, November 12, 2003

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