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Test & Measurement

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Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

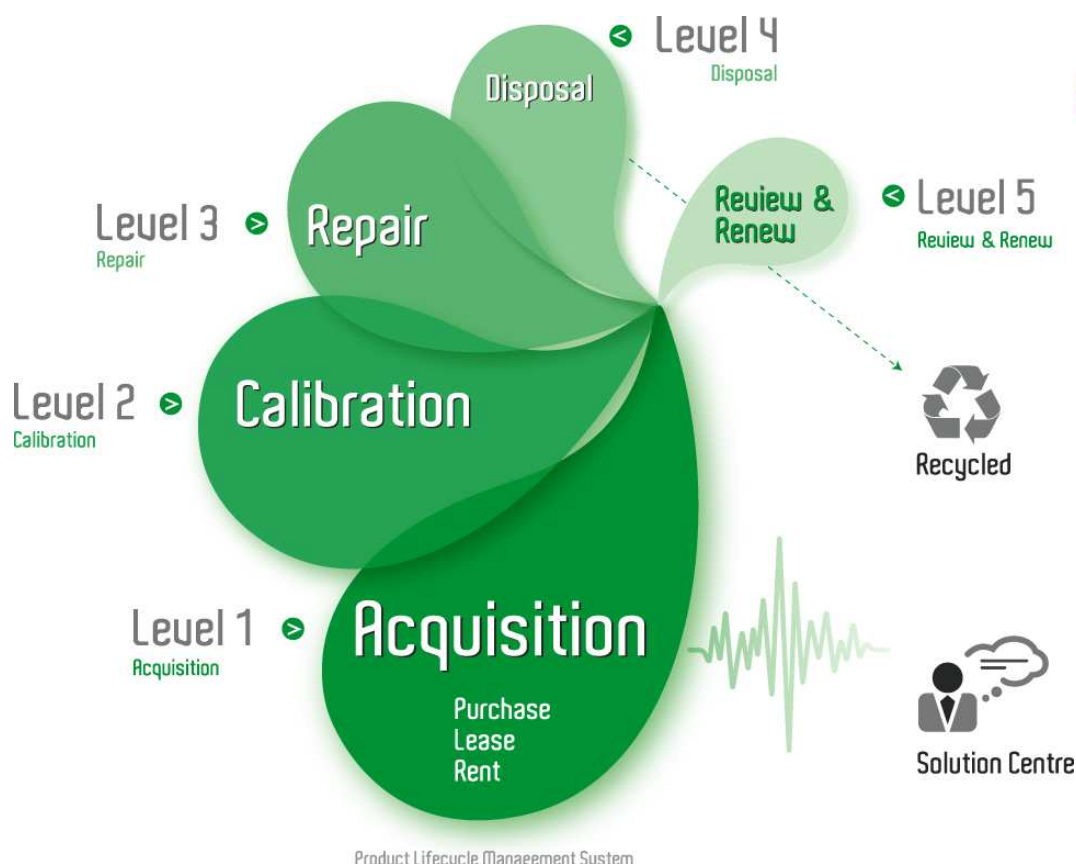
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EFT Verification Set

EFT/Burst generators are verified according to the standard IEC/EN 61000-4-4 Edition 2. Measurements of individual impulse parameters are performed using a termination to match the EFT/Burst generator output impedance (50Ω) and a voltage divider to reduce the impulse level so it can be displayed on commercial oscilloscopes. The 50Ω attenuator, **PAT 50** is to match the new amendment 2 and edition 2 requirements.

An oscilloscope with minimum 400MHz band-width is required to properly display the EFT impulse.

The PAT attenuator series has been developed in response to the IEC 61000-4-4 amendment 2 from 2001 which extends the verification requirement to also include impulse measurement using a $1k\Omega$ load.

The **PAT 1000** meets the amendment 2 and edition 2 requirements of 1000Ω in parallel with $6pF$.



EFT/Burst Verification Set-up

To verify an EFT/Burst generator proceed as below:

- (1) connect the attenuator input directly to the EFT/Burst generator High Voltage output
- (2) using 1m cable provided, connect output of the attenuator to a suitable oscilloscope
- (3) set the oscilloscope input to 50Ω .

If the EFT/Burst impulse is to be verified at the output of a CDN, a suitable adaptor is required. Both the generator and the oscilloscope must be connected to the ground plane properly.

Set consisting of

- ☒ PAT 50 50Ω load / attenuator 54dB
- ☒ PAT 1000 $1k\Omega$ load / attenuator 60dB
- ☒ Coaxial cable 1 meter
- ☒ User manual & Test certificate
- ☒ Functional case

Technical Specifications

Divider Ratio PAT 50	54dB
Divider Ratio PAT 1000	60dB
Test Load Impedance	$50\Omega \pm 2\%$
Test Load Impedance	$1000\Omega \pm 2\% // \leq 6pF$
Net weight	1.0 kg

BNC Cable length	1m
Max. Impulse voltage	5kV
Input connection	SHV
Output connections	50Ω BNC connector
Dimensions (W x H x D)	260 x 160 x 62mm

Ordering Information

EFT VERIFICATION SET Art. No. 249995

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