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Test & Measurement

- sales
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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.

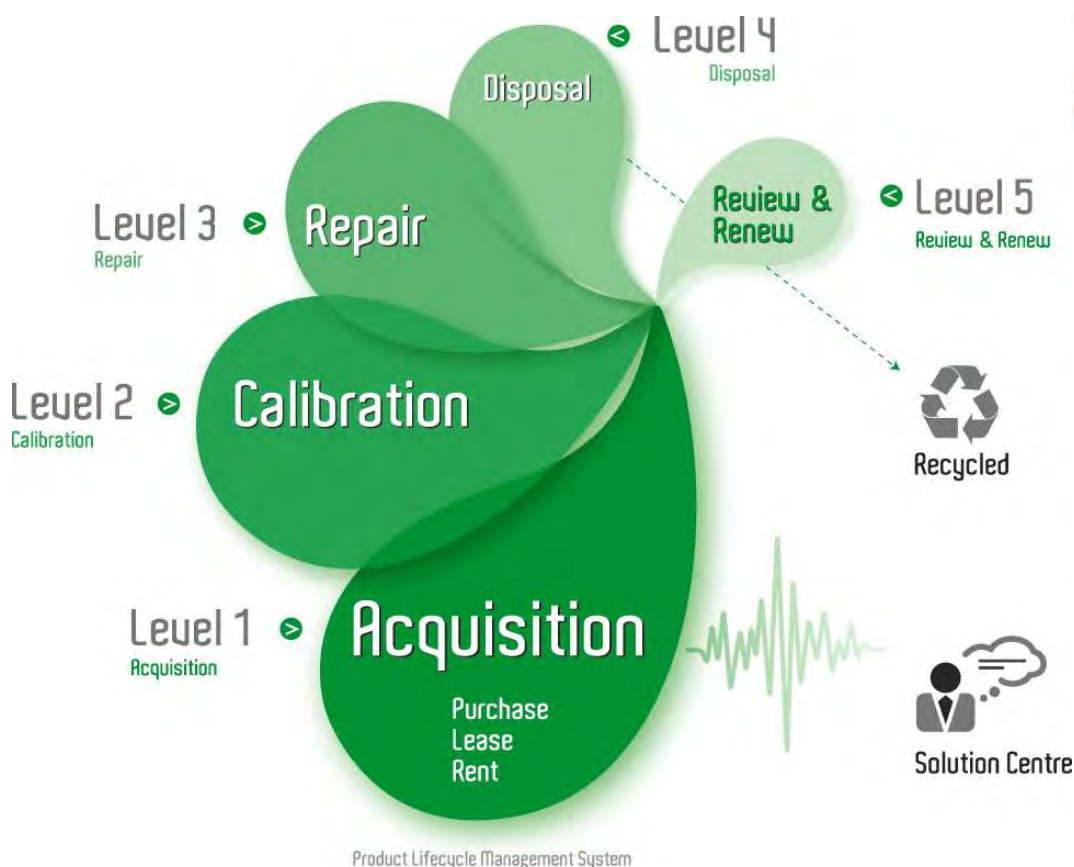
TMG will assist if you are unsure whether this model will suit your requirements.

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

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HZ540/HZ550 EMV Near-Field Probe Set up to 3GHz

0957H



Image
HZ550L

HZ540 and HZ550 EMI-Near Field Probe Sets

The HZ540/550 are the ideal toolkits for the investigation of RF electromagnetic fields. They are indispensable for EMI pre-compliance testing during product development, prior to third party testing. The sets include 3 or 5 hand-held probes with built-in pre-amplifier covering the frequency range from <1MHz to approx. 3000MHz.

The probes of the basic set HZ540 include one magnetic field probe, one electric field probe, and a high impedance probe. In addition to the HZ550 features an optional μ -magnetic field probe and a passive radiation probe. All probe outputs are matched to the 50 Ω inputs of spectrum analyzers or RF-receivers.

Probe Set HZ540 (Basic Set)

HZ551	Electrical Field Probe
Frequency range:	<1MHz to approx. 3GHz
Directional sensitivity:	omnidirectional
	Sensitive to electrical fields
Output impedance:	50 Ω ; SMA-connector
Power supply:	6V _{dc} /80mA (directly by HAMEG Spectrum Analyzer)

HZ552	Magnetic Field Probe
Frequency range:	<30MHz to approx. 3GHz
Directional sensitivity:	similar to frame antenna
	Sensitive to changing magnetic fields
Output impedance:	50 Ω ; SMA-connector
Power supply:	6V _{dc} /50mA (directly by HAMEG Spectrum Analyzer)

HZ553	High Impedance Probe
Frequency range:	<1MHz to approx. 3GHz
Input capacity:	<2pF // approx. 250k Ω
Attenuation:	between 10:1 and 30:1
Max. input voltage:	10V _{pp} (without significant distortion)
Max. voltage of a non-insulated conductor:	30V
Output impedance:	50 Ω ; SMA-connector
Power supply:	6V _{dc} /80mA (directly by HAMEG Spectrum Analyzer)

Physical dimensions:	13 x 27 x 70mm (W x H x D) (+ antenna at HZ551)
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HZ540 consists of:	HZ551 Electrical Field Probe HZ552 Magnetic Field Probe HZ553 High Impedance Probe 1 SMA to N-Cable 1.2m Case Manual
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Probe Set HZ550

HZ554	Magnetic Field Probe (small sensor)
Frequency range:	<50MHz to approx. 3GHz
Directional sensitivity:	Sensitive to changing magnetic fields
	High spatial resolution due to very small sensor area
Max. voltage of a non-insulated conductor:	30V
Output impedance:	50 Ω ; SMA-connector
Power supply:	6V _{dc} /50mA

HZ556	Radiation Probe
Frequency range:	<30MHz to approx. 3GHz
Directional sensitivity:	like frame antenna
	Radiation of changing magnetic fields
Max. input power:	0.5W (short term)
Output impedance:	50 Ω ; SMA-connector
Power supply:	not required; passive probe

Physical dimensions:	13 x 27 x 70mm (W x H x D) (+ antenna at HZ551)
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HZ550 consists of:	1 HZ540 Basic Set 1 HZ554 Magnetic Field Probe 1 HZ556 Radiation Probe 1 SMA to N-Cable 1.2m
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Probe Set HZ540L and HZ550L

HZ540L = HZ540 (without HZ553) + HZ555 Low Capacitance Probe
HZ550L = HZ550 (without HZ553) + HZ555 Low Capacitance Probe

HZ555	Low Capacitance Probe
Frequency range:	approx. 400kHz...3GHz
Input impedance:	<0.2pF // 250k Ω
Attenuation:	10:1
Max. input voltage:	5V _{pp}
Max. voltage of a non-insulated conductor:	30V
Output impedance:	50 Ω ; SMA-connector
Power supply:	6V _{dc} /80mA