ABN 43 064 478 842

231 osborne avenue clayton south, vic 3169
PO box 1548, clayton south, vic 3169
t 03 9265 7400 f 03 9558 0875
freecall 1800 680 680
www.tmgtestequipment.com.au

Test & Measurement

- sales
- rentals
- calibration
- repair
- disposal

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.

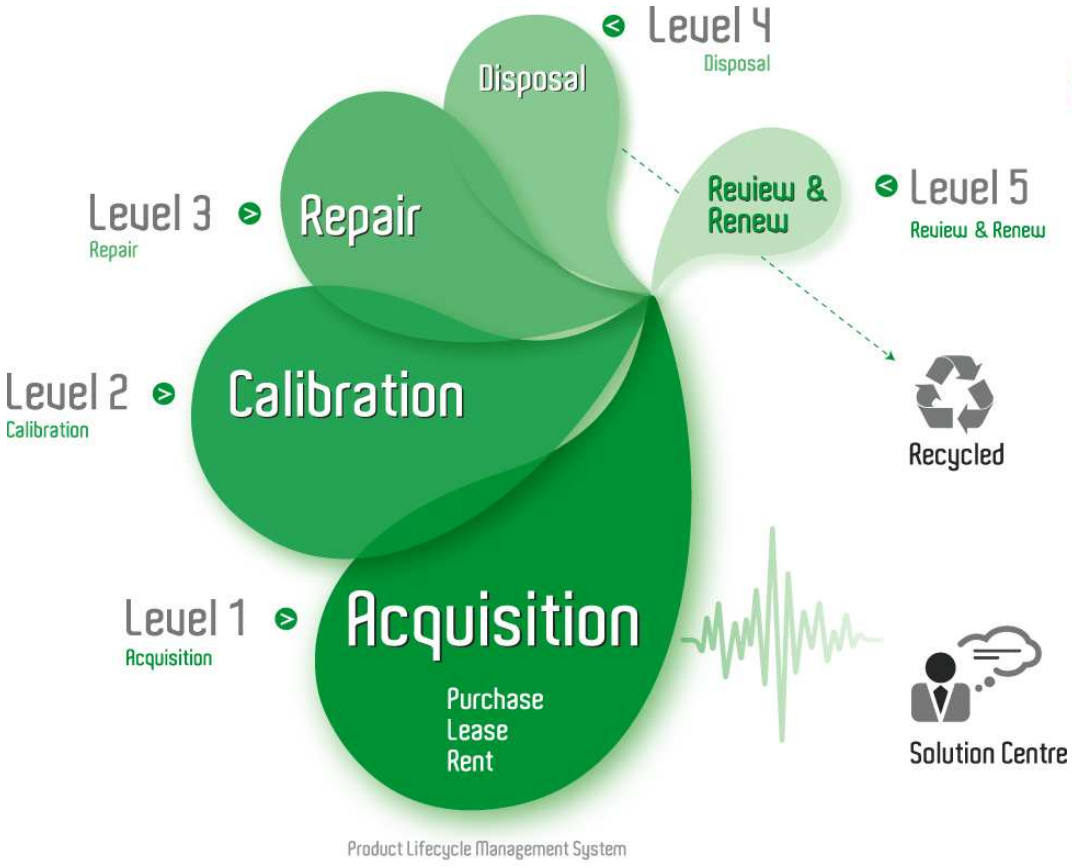
TMG will assist if you are unsure whether this model will suit your requirements.

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

If you click on the "Click-to-Call" logo below, you can all us for FREE!

TMG Corporate Website **TMG Products Website**

Click-to-Call
TMG Now



7 Specifications

NOMINAL CHARACTERISTICS

Nominal characteristics describe parameters and attributes which are guaranteed by design, but do not have associated tolerances.

Maximum Continuous Input Current	15 Amp peak Refer to figure 7-1, Input current vs. frequency.
Maximum Peak Current	30 Amp peak, 50 Amp at pulse width of < 10 µsec.
Insertion Impedance	Refer to figure 7-2
Intended Output Load	1 MΩ
Maximum Permitted Circuit Voltage	300 V, CAT I (Insulated conductor).

WARRANTED CHARACTERISTICS

Guaranteed at 23° C ± 3° C (73° F ± 5° F) after power has been applied for 30 minutes.

Low Frequency Accuracy	± 1% of reading ± 1 mV.

TYPICAL CHARACTERISTICS

Sensitivity	20 mA/div to 10 A/div.
Output voltage	0.1 V/A
Sensitivity Temperature Coefficient	± 2% or less. (from 0° to +40° C, 32° F to 104° F).
Noise	Equivalent to 2.5 mA rms or less (Bandwidth of measuring instrument: 20 MHz).
Bandwidth	DC to 50 MHz.
Rise Time	< 7 ns.

ENVIRONMENTAL CHARACTERISTICS

Temperature	
Operating	0 to 40° C (32° F to 104° F) at 80% relative humidity.
Storage	-10° C to 50° C (14° F to 122° F) 80% relative humidity.
Usage	Indoor
Altitude	2000 m (6562 feet)
Effect of External Magnetic Field	Equivalent to a maximum of 20 mA (In a 60 Hz, 400 A/m magnetic field).

PHYSICAL CHARACTERISTICS

Dimensions Probe	
Length	175 mm (6.9 inch)
Width	18 mm (0.7 inch)
Height	40 mm (1.57 inch)
Dimensions Compensation Box	
Length	65 mm (2.6 inch)
Width	39 mm (1.5 inch)
Height	24 mm (0.9 inch)
Weight	210 g (7.4 oz.)
Maximum diameter of conductors to be measured	5 mm (0.2 inch)

COMPLIANCES AND CERTIFICATIONS

CE Declaration of Conformity

The probe meets requirements of the EMC Directive 89/336/EEC for Electromagnetic Compatibility and Low Voltage Directive 73/23/EEC for Product Safety.

Electromagnetic Emission:	EN 55011:1998 Class B	Radiated emissions
Electromagnetic Immunity:	EN 61000-4-2:1995	Electrostatic Discharge
	EN 61000-4-3:1996	RF Radiated Electromagnetic field

* Meets Performance Criteria "B" limits at certain test levels, during the disturbance, product undergoes a temporary degradation or loss of function of performance which is self recoverable.

Low Voltage Directive:	EN 61010-1:1993+A2:1995 Safety requirements for electrical equipment for measurement, control and laboratory use. Part 1: General requirements Part 2-031: Particular requirements for hand-held probe assemblies for electrical measurement and test Part 2-032: Particular requirements for hand-held cur rent clamps for electrical measuremnt and test The probe has been qualified to the following EN 61010-2-031:1994 EN 61010-2-032:1995 Overvoltage Category I (anticipated transient overvoltage 1500 V), Pollution Degree2

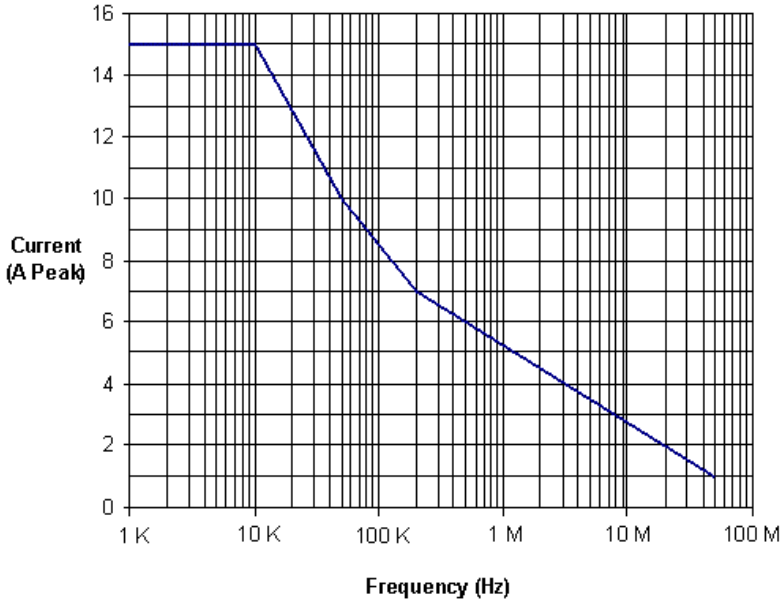


Figure 7-1. Maximum Input Current vs Frequency

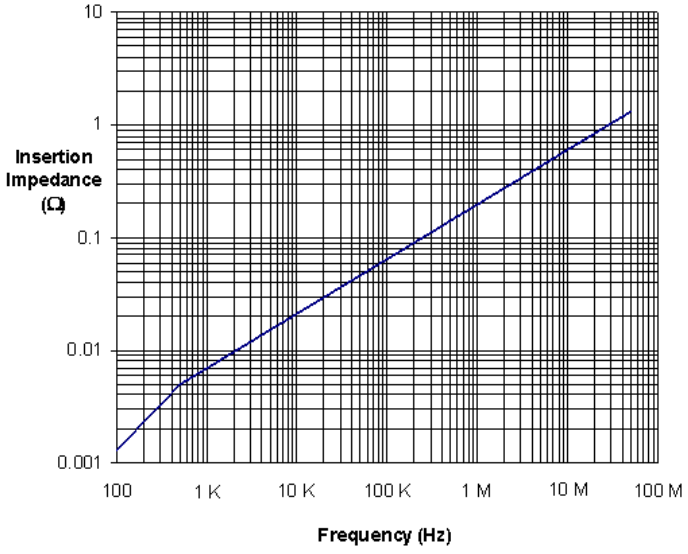


Figure 7-2. Insertion Impedance vs Frequency