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GT-4010A

Digitising Power Meter

Description

This range consists of 3 digitising power meters that are used to measure both AC & DC Loads. Each unit is built with front panel control and display and includes an IEEE 488.2 interface as standard. A total of 6 automatic switching ranges provide a tight resolution and high accuracy of the voltage and current being measured. Digital integration is used to calculate the power factor and actual power being taken by the unit under test. Applications include power supply, computer, lamp and ballast and monitor testing. The 4012A is particularly suitable for adapter no load measurement as its lowest current range is 0-125mA. The GPIB interface makes this unit ideal for integration into automated test systems. The carrying handle and low weight of 4.5kgs also make this unit suitable for mobile users. Retractable legs provide a good viewing angle.



- Six Voltage & Current Ranges
- Digital Integration for W & PF
- Front Panel Calibration
- V/I/W/PF Display
- High Accuracy

Selection Table

Part Number	Maximum Power	Maximum Voltage	Maximum Current	Dimensions (WxHxD)
GT-4010A	6000W	300V	20A	221 x 88 x 325mm
GT-4011A	12000W	600V	20A	221 x 88 x 325mm
GT-4012A	1500W	300V	5A	221 x 88 x 325mm

Options Table

Code	Description
/0001.....	1m IEEE488.2 cable
/0002.....	2m IEEE488.2 cable



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GT-4010A

Digitising Power Meter

Unit Input Specifications

GT-4010A

Voltage

Current

Ranges 1-6	30, 60, 100, 150, 200, 300V	0.5, 1, 2, 5, 10, 20A
Impedance	1m on all ranges	0.11 (on ranges 0.5, 1, 2A), 0.01 (on ranges 5, 10, 20A)
Max. AC Continuous Input	300Vrms AC	20 Arms AC (40A peak)
Max. DC Continuous Input	450VDC or peak AC	20ADC
Max. Allowable Input (for 1 min)	1000V peak	40A

GT-4011A

Voltage

Current

Ranges 1-6	60, 120, 200, 300, 400, 600V	0.5, 1, 2, 5, 10, 20A
Impedance	1m on all ranges	0.11 (on ranges 0.5, 1, 2A), 0.01 (on ranges 5, 10, 20A)
Max. AC Continuous Input	600Vrms AC	20 Arms AC (40A peak)
Max. DC Continuous Input	900VDC or peak AC	20ADC
Max. Allowable Input (for 1 min)	2000V peak	40A

GT-4012A

Voltage

Current

Ranges 1-6	30, 60, 100, 150, 200, 300V	0.125, 0.25, 0.5, 1.25, 2.5, 5A
Impedance	1m on all ranges	0.4 (on ranges 0.125, 0.25, 0.5A), 0.04 (on ranges 1.25, 2.5, 5A)
Max. AC Continuous Input	300Vrms AC	5 Arms AC (10A peak)
Max. DC Continuous Input	450VDC or peak AC	5ADC
Max. Allowable Input (for 1 min)	1000V peak	10A

Common Technical Data

Measurement Specifications	Voltage Vrms	Current Irms	Power Pav	Power Factor P.F.
Operating Theory	$\left[\frac{1}{256} ? Vi^2 \right]^{1/2}$	$\left[\frac{1}{256} ? Ii^2 \right]^{1/2}$	$\frac{1}{256} ? Vi \times Ii$	$\frac{Pav}{Vrms \times Irms}$
Crest Factor	Up to 1.5	Up to 2	Corresponds to V & A	Corresponds to V & A
Accuracy	0.1% of reading + 0.06% of range	0.1% of reading + 0.1% of range	0.2% of reading + 0.2% of range	0.2% of reading + 0.2% of range
Sample Rate for Both V & A	11, 520 - 16,640 samples/sec Normal Mode: 256 samples/cycle Average Mode: 1024 samples/cycle			
Fundamental	DC			
Frequency Range	45 to 65Hz (AC, AC+DC)			
Temperature Coefficient	Less than 0.025% of range/°C			

Every effort is made to ensure that the information provided within this technical summary is accurate. However, ET must reserve the right to make changes to the published specifications without prior notice. Where certain operating parameters are critical for your application we advise that they be confirmed at the time of order. ET specialises in modifying its proven platforms to suit your needs. Please contact our office if your requirement is non-standard. Please note that your actual unit may differ from those shown.