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ANALYST 2000P



2020P

Hand Held Power Meters



More than just a power meter . . .



- 2000P AC/DC POWER/MULTIMETER
- 2020P AC POWER/MULTIMETER
- 3PA THREE PHASE ADAPTOR
- PCL1 DIGITAL INTERFACE
- HC1 HARD CASE

. . . a total measurement solution

Clamp-on current measurement



The Analyst takes portable power measurement instrumentation into new territory. The microprocessor-controlled Analyst incorporates multimeter and oscilloscope functions in its impressive array of measurement options. The clampon design allows current measurement up to 2000A without breaking into the circuit.

Standard accessories include voltage test leads, instrument carrying case and analogue output lead for use with chart recorders and oscilloscopes.

Digital Interface and Software Allows data logging of A, V, kW, kVA $\cos \varnothing$, \varnothing , Ω and Hz on a personal computer for further analysis. Logging intervals from 2 seconds to 20 minutes. The

Optional accessories include:

Chart recorder and oscilloscope outputs





3PA

PCL₁

Three Phase Adaptor

Analyst instruments.

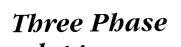
Enables measurements to be made on three phase systems when the neutral conductor is inaccessible.

For the Analyst and complete range

interface is compatible with all new



Hard Carrying Case



The Analyst combines the features of several instruments in one package, providing the operator with new levels of confidence in electrical measurement without the need for additional on-site equipment. Measurement features include:

- · Oscilloscope mode for voltage and current waveforms.
- Autoranging digital and bar graph displays.
- · Isolated current measurement to 2000A Pk.
- Voltage to 750V RMS.
- True Power and Apparent Power: DC 2000kW/kVA Max. AC 1000kW/kVA Max.
- True RMS, Peak, Average and Surge measurement options.
- · Selectable 100Hz Filter.
- Frequency measurement to 1000Hz.
- · Resistance to 400KΩ.
- · Diode and continuity test.
- · Analogue and Digital Outputs.

DC functions and analogue output are unique to the 2000P.

SPECIFICATION

Function		2000P	2020P	Range	Accuracy
CURRENT A Max overload	DC AC RMS DC RMS		<i>y</i>	40/400/2000A Peak	± 1% range
10,000 A	Average Peak Filtered Surge	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\(\sqrt{1} \)	autoranging 8-400A, 40-2000A	± 3.5% range ± 2% range ± 2% range
VOLTAGE V Max overload 1000 V	DC AC RMS DC RMS Average Peak Filtered	\ \ \ \ \	y y y y	40/400/1000V RMS autoranging	± 0.5% range ± 3.5% range ± 1% range
POWER W/VA POWERFACTOR	AC RMS DC RMS Cosø	-	✓ ✓	4/40/400/1000kW/kVA 4/40/400/2000kW/kVA 0.3 cap 0.3 ind. 72.5° cap 72.5° ind.	± 2% range ± 3°
FREQUENCY	Hz	✓	✓	10-1000 Hz	± 0.5% range
RESISTANCE	Ω	1		4/40/400ΚΩ	± 1% range
CONTINUITY		✓		$0-800\Omega$ Buzzer < 120Ω	± 1% range
DIODE TEST		1		0 - 2V	± 2% range
Analogue Output		1		400mV Full Scale	± 1% range
Digital Interface	PCLI	✓	/]		
3-Phase Adaptor	3PA	✓	✓ }	Optional Accessories	
Hardcase	HC1	✓	,		

GENERAL DATA

Dimensions L x W x D 280 x 98 x 52mm

Weight 850g

Max. Conductor Size 60mm Circular 22 x 68mm Rectangular

Power Supply 9V Alkaline Battery (approx. 10 hours continuous use)

Safety

Maximum voltage between uninsulated current carrying conductor and ground 1000V RMS. Voltage withstand 6KV, 50 Hz for 1 minute

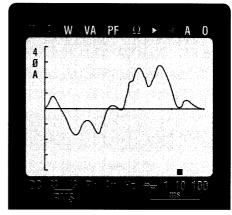
Display

Dot matrix LCD, characters 13mm high, 4 digit. Display facilities: 22 segment bar graph, low battery and polarity indications.

The Analyst and Harmonics

The Analyst uses advanced Hall Effect technology for current measurement. This approach ensures a broad, flat frequency response which is essential for accurately monitoring the presence of harmonics.

The oscilloscope display mode provides a simple and fast method for identifying distorted signals caused by harmonics. The ability to measure both true RMS and average current and a switchable 100Hz filter allows detection of harmonics through comparison of readings.



Distorted waveform due to harmonics Average | x 1.11 < True RMS |

Other Products from LEM HEME

PR20, PR30, PR200, PR1001 AC/DC Current Probes

A new range of high performance AC/DC current probes for use with oscilloscopes, multimeters and recording equipment. The compact clip-on design conforms to the IEC 1010 safety standard and allows non-intrusive measurement of current from 5mA to 1000A peak. Utilising Hall Effect technology, the probe range will accurately measure AC, DC and complex waveforms.

- · Frequency ranges up to 100kHz
- 1% Accuracy
- · Compact and self-contained



H600 AC/DC Clip-on Multimeter

This versatile instrument replaces both multimeter and clampmeter. The H600 uses clamp-on Hall Effect technology to measure AC and DC currents up to 600A and test lead inputs for voltage and resistance.

- · AC or DC Selectable
- · 1% Accuracy
- Voltage up to 750V
- · Resistance up to 2000Ω
- Continuity Test

Information on the full range of products available from LEM HEME can be obtained from LEM subsidiaries and authorised distributors worldwide.







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LEM HEME LIMITED have a policy of continual product improvement and the