

True RMS Clamp-on Power Quality Meters

ANALYST® 2050/2060

- W, VA, VAR, kWh and Power Factor measurement, even for distorted waveforms
- AC and DC clamp on current measurement up to 2000A
- TRMS, Peak, Crest Factor, THD, DF and Frequency for current and voltage
- Large backlit display for oscilloscope mode, chart mode and multi parameter display
- Internal and PC based data logging of up to 5 parameters for 24 hours to identify intermittent faults
- 8 screen save memory and time stamped min, max, average recordings
- Built in 3 phase power capability for balanced loads
- IEC1010 Cat IV for enhanced safety in hazardous voltage areas
- Enhanced EMC performance for power electronics applications

Additional Features Analyst 2060

- Live Harmonics analysis and bargraph display
- Simultaneous logging of harmonics, RMS and THD values using WinLog PC software
- Measurement of DC Ripple
- Smart Save to simultaneously capture all harmonics and associated waveform
- Extended memory for data logging of up to 10000 readings (AN2050 – 5000 readings)

The unique combination of features offered by the ANALYST make it an essential tool for power measurement and diagnostics. The new ANALYST combines the functionality of a power quality meter, oscilloscope and data logger in a single hand held instrument which has been designed for safety and ease of use.



Specification							
	AMPS	VOLTS	WATTS	VA	VAR	PF	kWhr
Ranges (auto-ranging)	40A 400A 2000A	4V, 40V, 400V, 750V	4kW, 40kW, 400kW, 1200kW	4kVA, 40kVA, 400kVA, 1200kVA	4kVAR, 40kVAR, 400kVAR, 850kVAR	0.3 cap to 0.3ind	4, 40, 400, 4,000, 40,000
Resolution	0.01A 0.1A 1A	0.001V, 0.01V, 0.1V, 1V	1W, 10W, 100W, 1kW	1VA, 10VA, 100VA, 1kVA	1VAR, 10VAR, 100VAR, 1kVAR	0.01	1, 10, 100, 1,000, 10,000Whr
Accuracy	±1.5% rdg. ±5 dcts.	±1% rdg. ±5 dcts.	±2.5% rdg. ± 5 dcts.	±2.5% rdg. ± 5 dcts.	±2.5% rdg. ± 5 dcts.	± 3degrees	± 3% rdg. ±5dcts.

LOGGING

Data can be stored as Saved Screens or logged values. All parameters shown on the screen are logged simultaneously. Stored readings can be recalled and displayed on-screen in normal screen format or in the case of logged data as a chart.

All saved data can be downloaded to a PC including waveforms for harmonics analysis using WinLog software. WinLog also allows direct logging to a PC of waveforms, harmonics and up to 5 measured parameters.

Memory Size

Analyst 2050: 8 Screens and up to 5000 readings

Analyst 2060: 8 Screen Smart Save and up to 10000 readings

Waveforms and Harmonics

The auto-ranging scope function has ranges from 10A to 2000A and 4V to 1000V for the display of current and voltage waveforms.

The time-base is selectable from 2ms/div to 50ms/div.

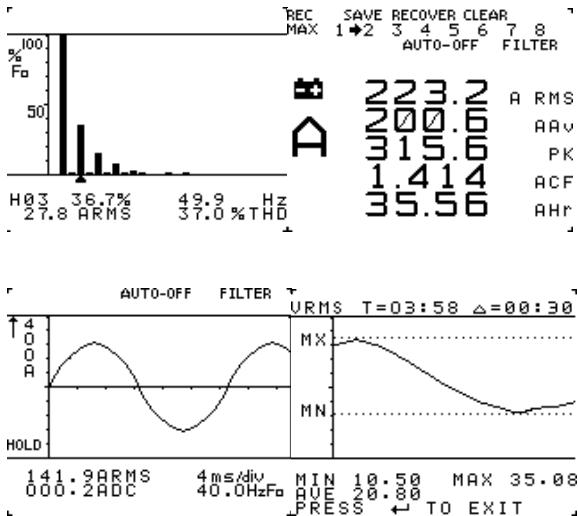
Refresh rate 0.5 seconds.

Max sampling rate 9.6 kHz

The Analyst 2060 allows the harmonic content of current and voltage waveforms to be displayed up to the 25th harmonic, in bargraph format, together with individual values and THD/DF. Fundamental frequency range F_0 - 45Hz to 65Hz

SPECIFICATION

Display: Dot matrix LCD 160x128 pixels with backlight



Power Supply

Battery Type: 6xAA Alkaline MN1500, LR6
Battery Life: Typically 24hrs. (Backlight off)

Mechanical Data

Dimensions (H x W x D): 300 x 98 x 52 mm
12 x 3.75 x 2 inches
Weight: 750 gm / 1.65 lbs
Jaw Capacity: 60 mm diameter
Jaw Opening: 62 mm

Environmental Data

Operating Temperature: 0 °C to 50 °C (32 °F to 122 °F)
Temperature Coefficient: ± 0.1 % of reading per °C
(Current)
Storage Temperature: ± 0.06 % of reading per °F
-20° to 60° (-4 °F to 140 °F)

Safety

All models comply with IEC1010-1, 600V working, Installation category IV, (750V Cat III) Pollution degree 2.

Maximum Safe Voltages

Current measurement (bare conductors)	600V AC RMS or DC between uninsulated conductor & ground
Voltage measurement	600V AC RMS or DC between input terminals or between live terminal & local ground.

WinLog is an easy to use PC software and interface package for data logging applications with the LEM Power Clamps and HEME ISO Series insulation testers. The software can be used to continually log the electrical measurements displayed on the instrument or to download stored data from the Analyst and ISO2000 to a PC for further analysis.

- Easy to use Windows format allowing the display of multiple parameters in instrument mimic, table and chart formats.
- Simultaneous logging of multiple parameters
- Waveform, Harmonics* and stored data download from the Analyst
- Harmonics analysis of waveforms with the Analyst and LH1060
- Simple data export to other applications

*Analyst 2060 only

Notes:

1. All accuracies stated at 23°C ± 1 °C (73.4 ± 1.8 °F)
2. True RMS measurements taken over 500 ms
3. Frequency response DC and 10Hz to 1kHz.



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