



## PRO PA-810

### PORTABLE POWER QUALITY ANALYSER

#### INTRODUCTION

The Metravi PA-810 Portable Power Quality Analyser measures currents and voltages and reports real-time RMS values for all 3-phases and neutral. In addition, it calculates power factor, real power, reactive power, and more.

#### FEATURES & FUNCTIONS

- Current: Per phase, neutral, and average of 3 phases
- Voltage: L-L, L-N, and average of 3 phases, N-PE
- Frequency: 45-65 Hz
- Active Power: Total and per phase (signed)
- Reactive Power: Total and per phase (signed)
- Apparent Power: Total and per phase (signed)
- Power Factor (true): Total and per phase; 0.000 to 1 (signed)
- Angle: Voltage angle, Current angle
- Current Unbalance: Per phase, most unbalanced of 3 phases
- Voltage Unbalance: most unbalanced of 3 phases
- Data Logging : To MicroSD Card with user settable record interval of 1s to 9999s (default min)
- Data Capacity: 16GB memory, store about 2.5K Bytes data each time



#### GENERAL SPECIFICATIONS

Display	: 3.5 inch Colour TFT
Sampling Rate	: 8k samples per second
Harmonic	: 51st in the mean time
Poles	: 3PH4W 3PH 3W; 1PH2W (L-N); 1PH2W(L-L); 1PH3W(L-L-N)
LED Indication	: External Rogowski Coil, External CT (333mV only)
Operating Environment	: -25° to 55°C, 5 to 95% RH at 50°C (non-condensing)
Storage Environment	: -40° to 85°C, 5 to 95% RH at 50°C (non-condensing)
Power	: 2*2900mAh Lithium battery (working time: approx 10h, charging time: approx. 8h); Or 5VDC power supply
Allowable Altitude	: ≤ 3000 mts
Protection & Certifications	: IEC/EN 61010-1, CATIII 300V, IEC/EN 61557-1, IEC/EN 61557-6, for distribution systems up to 277/480VAC, Pollution Degree 2, as per IEC61010-1, Doubled insulated front panel display
IP Protection	: IP20 conforming to IEC 60629
Dimensions & Weight	: LxWxD : 21.5x13x6 cms, 850g (with accessories 2kgs)
Accessories	: 5pcs voltage clamp wires with banana plug(2 meters, 1.5mm <sup>2</sup> ) 85-265 AC to 5V DC Adaptor(default Europe plug) Rogowski coils not included (available at extra cost)



\*Technical specifications and appearance are subject to change without prior notice.

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#### TECHNICAL SPECIFICATIONS

Input Type	External Rogowski coil
	External CT(333mV only)
Poles	3PH4W 3PH3W 1PH2W (L-N); 1PH2W(L-L);1PH3W(L-L-N)
Supports Extra Sensors	4pcs BNC terminal 333mV CT
	4pcs BNC terminal 320mV current clamp
	4pcs BNC terminal Rogowski coil
Accuracy Rated current (3 level selectable)	600A (0.5% from 6A to 720A)
	3000A (0.5% from 10A to 3600A)
	6000A (0.5% from 20A to 7200A)
Rogowski Coil connect setting	600A
	3000A
	6000A
Current Clamp	5A : 0.5% (100mA ~ 5A) 1%(10mA ~ 100mA)
	10A : 0.5% (100mA ~ 10A) 1%(10mA ~ 100mA)
CTs connect setting	Primary setting from 1A to 999999A
	Secondary setting from 0.001mV to 707mV
Voltage	0.2% from 5 to 600V
Power Factor	±0.005
Active / Apparent Power	IEC62053-22 Class 0.5
Reactive Power	IEC62053-21 Class 2
Frequency	0.01% from 45 to 65Hz
Active Energy	IEC62053-22 Class 0.5s
Reactive Energy	IEC62053-21 Class 2
Primary Current Range	600A : 0.5A to 720A
	3kA : 0.5A to 3600A
	6kA : 0.5A to 7200A
Measurement Input Range	1/225mV-707mV
Permissible Overload	2V for 10s/hours
Current Input	BNC connector
Voltage Input	Banana plug
Transmission Mode	RJ45 port
Communication Protocol	MODBUS TCP
IP Address	Configurable (default 192.168.1.5)
Port No.	502
Min / Max Values	Minimum and Maximum values saved to nonvolatile memory with time stamping



Note: Current Clamps are at extra cost

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