

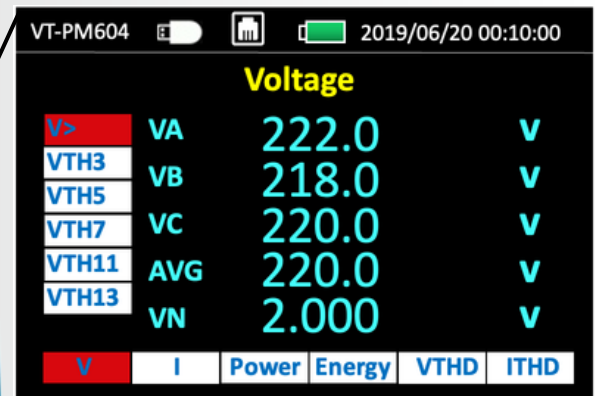


## 3-PHASE POWER MONITORING & DATA LOGGING

The VT-PM604 is a portable, multi-function three-phase power quality analyzer designed for real-time diagnostics, logging, and energy monitoring across diverse power systems. It supports Rogowski coils, current clamps, and voltage clamps, making it adaptable for various applications in electrical Plant Maintenance, Energy Audits, Solar PV Power Plants, EV Chargers, UPS/Power Equipment Manufacturers, etc.

### Key Features

- Supports 3PH4W, 3PH3W, 1PH2W (L-N and L-L), and 1PH3W wiring configurations
- Real-time display of voltage, current, power, energy, demand, harmonics, and power factor
- Harmonic measurement for voltage and current up to 51<sup>st</sup> harmonic
- Dual power supply: lithium batteries or DC adapter for 10 hours of operation per charge
- Built-in 30GB memory with CSV file export via USB drive
- MODBUS TCP/IP communication via RJ45 port
- 3.5" color TFT screen
- Logging interval: adjustable from 1s to 9999s
- Shows unbalance for voltage and current



VT-PM604				2019/06/20 00:10:00	
<b>Voltage</b>					
V>	VA	222.0		V	
VTH3	VB	218.0		V	
VTH5	VC	220.0		V	
VTH7	AVG	220.0		V	
VTH11	VN	2.000		V	
VTH13					
V	I	Power	Energy	VTHD	ITHD



# TECHNICAL SPECIFICATIONS

Measurement Capabilities & Accuracy	
Voltage	5V to 600V (0.2%)
Current (Rogowski/Current Clamp Input)	10mA - 100mA (1%) 100mA - 5A (0.5%) 6A - 720A (0.5%) 10A - 3600A (0.5%) 20A - 7200A (0.5%)
Frequency	45 - 65 Hz (0.01%)
Power Factor	True PF per phase and total ( $\pm 0.005$ )
Power Measurement	Active Power, Reactive Power, Apparent Power
Energy Measurement	Active Energy, Reactive Energy, Apparent Energy
Harmonic Measurement	Voltage & Current up to 51st order
THD (V and I)	Total and individual harmonic distortion (%)
Supported Configurations	3PH4W, 3PH3W, 1PH2W (L-N), 1PH2W (L-L), 1PH3W (L-L-N)
Demand Calculations	Current; Active, Reactive, Apparent Power
Data Logging	
Internal Storage	30GB memory
Recording Interval	1 second to 9999 seconds (default: 60 seconds)
Sampling Rate	8k samples per second
Data Export	USB flash drive support for direct data download in .CSV format
Power Supply	
Battery	2900mAh lithium batteries
DC Adaptor	5V input (adaptor included)
Operating Time	Approx. 10 hours on full charge
Charging Time	Approx. 8 hours

Communication	
Transmission mode	RJ45 port (MODBUS TCP Communication Protocol)
USB Port	For data export (USB disk)
Physical Specifications	
Dimensions	215 x 130 x 60 mm
Weight	850g (device only), ~2kg with accessories
Display	3.5" TFT color screen
Environmental Rating	
Operating Temperature	-25°C to +55°C
Storage Temperature	-40°C to +85°C
Humidity Rating	5 to 95% RH at 50°C (non condensing)
IP Rating	IP20
Permissible Overload	2V for 10s/hr
Oversvoltage Category	CAT III, for distribution systems up to 277/480VAC
Safety Standards	IEC61010-1, EN 62053-22, EN 61557-12 and others
EMC	IEC61000-4-2,3,4,5,6,8 (Level III/IV); EN55022 (Class B)
Included Accessories	
5x Voltage Clamps with banana plugs (2m, 1.5mm <sup>2</sup> ); 4X 3000A VT-RC3K Rogowski Current Probes (2m, 150mm); 5V DC adapter; 5X Crocodile Clips; Hard Carrying Case	
Optional Add-ons	
VT-RC600 Rogowski Current Probe (600A) VT-RC6K Rogowski Current Probe (6000A) VT-CC5 Current Clamps (5A) VT-MP Magnetic Probe attachments for hands-free operation	