

# T3PM1100 Fact Sheet

## Digital Power Meter



### Key Specifications

Specification	T3PM1100
Input Type	Voltage: Floating input through resistive voltage divider Current: Floating input through shunt
Measurement Range	Voltage: 15 V, 30 V, 60 V, 150 V, 300 V, 600 V Current: Direct input: 5 mA, 10 mA, 20 mA, 50 mA, 100 mA, 200 mA, 0.5 A, 1 A, 2 A, 5 A, 10 A, 20 A Sensor input EXT 1: 2.5 V, 5 V, 10 V EXT 2: 50 mV, 100 mV, 200 mV, 500 mV, 1 V, 2 V
Input Bandwidth	DC, 0.1 Hz to 100 kHz

### Tools for Improved Debugging

- 5" Large TFT LCD Display.
  - ✓ Clear visibility of your measurement results.
- Two numerical display modes along with a waveform display of various parameters.
  - ✓ Choose the best display mode for your measurement requirements.
- Automatic Level-changing feature for integration function.
  - ✓ Achieve faster measurement results without worrying about power level changes.
- External Current Sensor Input Terminal.
  - ✓ Extends the current measurement capability for various application requirements.
- Standard interfaces: USB, LAN, RS-232C.
  - ✓ Remote control of your measurements.
- 3 Years Warranty as standard.
  - ✓ Reliable product gives peace of mind.

For more information, please contact:



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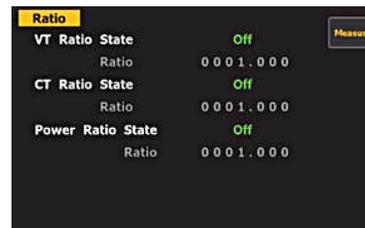
## Digital Power Meter



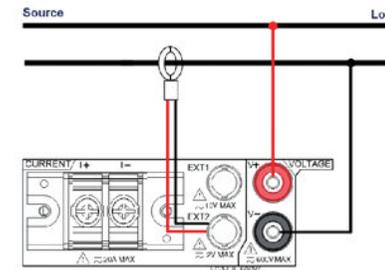
### Features

- 5" TFT LCD
- DC, 0.1 Hz to 100 kHz Voltage/Current test bandwidth
- Two numerical display modes
- General Mode: Displays 2 main test items + 8 secondary test items
- Simple Mode: Displays the test values of 4 main test items
- Waveform Display: V (Voltage), I (Current), P (Power)
- The Current/Voltage can be measured to a deformed wave with CF of 3, and the half-range CF can reach 6 or 6 A
- Meets the IEC 61000-4-7 harmonics measurement requirements (50/60 Hz)
- 50<sup>th</sup> order of harmonic measurement and analysis (value and bar graph)
- Integration function supports automatic level-changing
- External current sensor input terminals (EXT1/EXT2)
- Standard Interfaces: RS-232C, USB Device/Host, LAN

### AUXILIARY MEASUREMENT FUNCTIONS



Ratio Configuration



External Current Sensor Input

The T3PM1100 has a rich set of auxiliary measurement functions. High voltage measurements can be done using VT rate setting along with an external voltage Potential Transformer.

To measure currents above 20 A a Current Transformer (CT) can be used and the type of CT determines the instrument settings. When a voltage output type CT is used, measurement can be conducted through the external current sensor input terminals EXT1/EXT2. When a current output type CT is used, the CT can be directly connected to current input terminal on the rear panel and setting the appropriate CT ratio state in the Ratio configuration menu.

### RICH MEASUREMENT PARAMETERS

Measurement Items	Symbols
Voltage	Vrms, V <sub>pk</sub> , V <sub>pk</sub> , Vac*, Vdc*, V <sub>mn</sub> *
Current	Irms, I <sub>pk</sub> , I <sub>pk</sub> , Iac*, Idc*
Power	P, P <sub>pk</sub> , P <sub>pk</sub> , VA, VAR
Power Factor	PF
Crest Factor	CFV, CFI
Phase Angle	DEG
Frequency	VHz, IHz
Total Harmonic Distortion	THDV, THDI
Maximum Current Ratio	MCR
Integration	WP, WP+, WP-, q, q+, q-, Vac, Iac

Mode	Manual
Function	Watt Hours
Set Time	0000:00:00
Test Time	0000:00:34
State	Running

WP	4.5606 mWh
Vrms	4.7988 v
Irms	100.59 mA

Note: "\*" Only applicable to specific measurement modes

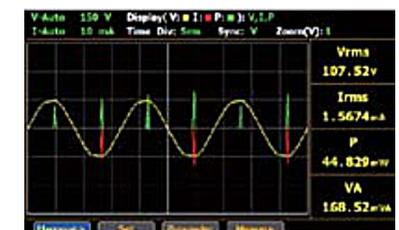
### VARIOUS DISPLAY MODES



Numerical (General) Mode



Numerical (Simple) Mode



Waveform Mode

T3PM1100 provides various measurement functions such as voltage, current, frequency, effective power, apparent power, reactive power, power factor, crest factor, total harmonic distortion, and maximum current ratio. T3PM1100 is also equipped to measure time integral of power or current for the DUT.

The results of parameter measurement are displayed in numerical as well as graphical formats. Numerical format offers general and simple mode to display various parameters. The graphical format can display waveforms of voltage, current and power. The horizontal scale can be adjusted from 25  $\mu$ s/div to 1 s/div (depends on data update rate). Three magnification levels for waveform are also provided for users to select.