

Flexible Coil Clamp-on Power Meter PRO FCM-900P

INTRODUCTION

The Metravi Pro FCM-900P Flexible Coil Clamp-on Power Meter is a multi functional, digital and intelligent instrument, which is especially designed & manufactured for field measurement of three phase AC Voltage, Current, Leakage Current, Phase between Voltage, Phase between Voltage and Current, Frequency, Phase Sequence, Electric Energy, Active Power, Reactive Power, Apparent Power, Power Factor and Total Power and so on.

It is very convenient to use and fully compatible with the functions of a large-caliber clamp/leakage current meter, as well as a micro power clamp meter.

It is widely used to check transformer connection grouping, capacitive circuits, reading out phase relationships with every group, check if watt hour meter wiring is correctly done or not, maintain line equipment, etc., as well as providing a safe, accurate and convenient meter for the electricity inspection officers.

FEATURES

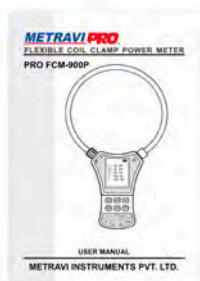
- Adopts advanced Rogowski Coil technology
- No hysteresis effect
- Almost zero phase error
- No magnetic saturation
- High linearity and strong anti interference ability
- Measured current ranges from milliamperes up to ten thousands of amperes
- Safe and reliable
- Small size, light weight, soft and flexible, suitable for narrow environments and flat cable dense places
- High measurement accuracy
- Strong reliability and wide response
- USB communication port
- Can store data and using system software, upload the stored data to the computer
- Read, query, save, print and other functions of historical data
- Backlit display



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GENERAL SPECIFICATIONS

Measurement Method	Flexible CT: The output signal is the differential of the current against time. By integrating the output voltage signal, the input current can be truly restored.
Clamp Size	Flexible coil inside $\Phi 200\text{mm}$
Conductor Position	The detected conductor is in the center position of the clamp
Data Storage	200 Groups
Communication Cable	RS232 communication cable, length 1.8 mtrs
Frequency	50Hz/60Hz automatic identification
Shift	Automatic
Sampling Rate	2 times/second
Line Voltage	Below 600V circuit measurement
Display	2.8 inch TFT colour LCD, 58mm \times 44mm
Backlight	Yes, " * " key control
Data Hold	Data hold function: "HOLD" symbol display
Overflow Display	Exceed measure range overflow function: "OL" symbol display
Automatic Shutdown	15 minutes after power on, it will power off automatically without any operation to reduce the power consumption
Battery Voltage	Low Battery Indication
Insulation	AC 3700kV/RMS (Between iron core and shell)
Safety Standards	IEC1010-1, IEC1010-2-032, Pollution 2, CATIII 600V
Operating Current	Open backlight 80mA, Close backlight 50mA
Operating Environment	-10°C to 40°C, below 80%RH
Storage Environment	-10°C to 60°C, below 70%RH
Dimensions	200mm (L) \times 380mm (W) \times 40mm (H)
Weight	Meter 272g, Total Weight 765g (with all standard accessories)



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TECHNICAL SPECIFICATIONS

AC VOLTAGE		
Range	Accuracy	Resolution
0.00V~60V	±0.5%Fs	0.01V
60.0V~600V	±0.5%Fs	0.1V

AC CURRENT		
Range	Accuracy	Resolution
0.0A~600.0A	±0.5%Fs	0.1A
600A~6000A	±0.5%Fs	1A

FREQUENCY		
Range	Accuracy	Resolution
25.0Hz~600.0Hz	±0.5Hz	0.1Hz

POWER FACTOR		
PF=W/ VA		
Range	Accuracy	Resolution
0.300~1.000	±0.5%Fs	0.001

PHASE ANGLE		
Range	Accuracy	Resolution
0.0°~360.0°	±0.5°	0.1°

ELECTRIC ENERGY		
Range	Accuracy	Resolution
0.00Wh~36.00Wh	±1%Fs	0.01Wh
36.0Wh~360.0Wh	±1%Fs	0.1Wh
360Wh~3600Wh	±1%Fs	1Wh
3.60kWh~36.00kWh	±1%Fs	0.01kWh
36.00kWh~360.0kWh	±1%Fs	0.1kWh

ACTIVE POWER		
W= (V×A×COSΦ)		
Range	Accuracy	Resolution
0.00W~36.00W	±1%Fs	0.01W
36.0W~360.0W	±1%Fs	0.1W
360W~3600W	±1%Fs	1W
3.60kW~36.00kW	±1%Fs	0.01kW
36.00kW~360.0kW	±1%Fs	0.1kW
360kW~3600kW	±1%Fs	1kW

REACTIVE POWER		
var=(V×A×sinΦ)		
Range	Accuracy	Resolution
0.00var~36.00var	±1%Fs	0.01var
36.0var~360.0var	±1%Fs	0.1var
360var~3600var	±1%Fs	1var
3.60kvar~36.00kvar	±1%Fs	0.01kvar
36.00kvar~360.0kvar	±1%Fs	0.1kvar
360kvar~3600kvar	±1%Fs	1kvar

APPARENT POWER		
VA= (V×A)		
Range	Accuracy	Resolution
0.00VA~36.00VA	±1%Fs	0.01VA
36.0VA~360.0VA	±1%Fs	0.1VA
360VA~3600VA	±1%Fs	1VA
3.60kVA~36.00kVA	±1%Fs	0.01kVA
36.00kVA~360.0kVA	±1%Fs	0.1kVA
360kVA~3600kVA	±1%Fs	1kVA

