

# 4016 Digital Power Analyzer (500V / 20A)

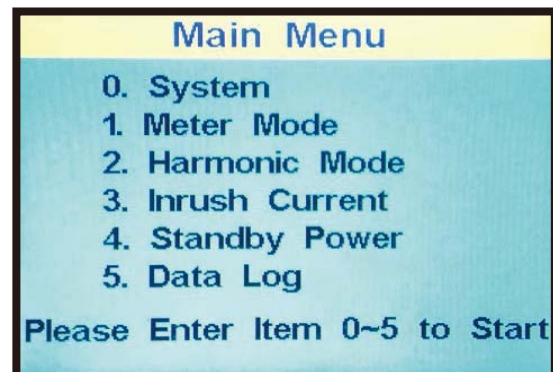
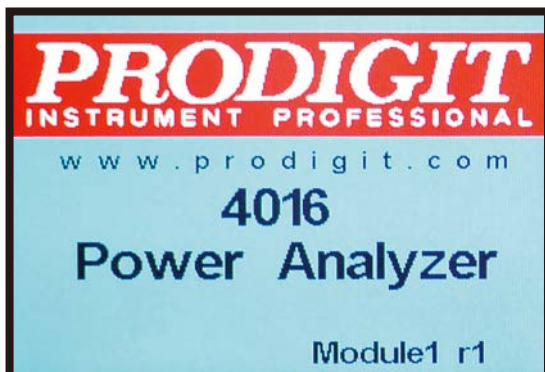


## Features

- Less than 0.001W standby power measurements meet IEC62301 Energy Star 0.03W standby power.
- Harmonic analysis to the 50th order
- 6 voltage range and 18 current range
- Up to 800Vpeak/200Apeak input
- Color graphical display
- Data log with Vrms, Arms, Watt, PF, VTHD and ITHD
- The built-in Power switch can be Controlled the ON/OFF degree angle (0~359°) according to of the Voltage source phase angle
- RS-232, GPIB, USB, Ethernet Interface (Option)

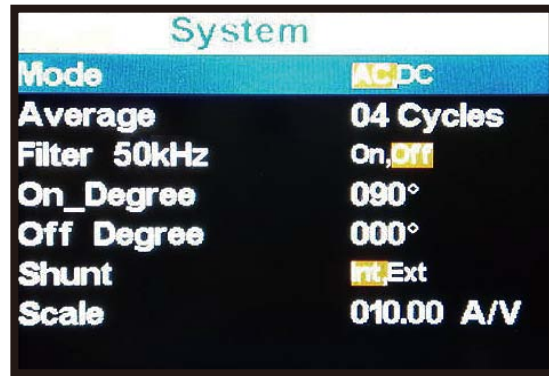
## Key Functions

- Power ON display and main menu



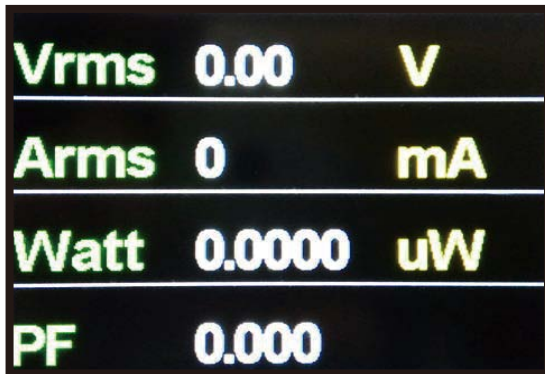
## System

- Mode : AC/DC
- Average : 1~64
- 50KHz Filter : ON/OFF
- ON Degree : 0~359°
- OFF Degree : 0~359°
- Shunt : INT/EXT can use internal Shunt or external current transformer (CT).
- Scale : Current-to-Voltage ratio when using an external current transformer (EXT)



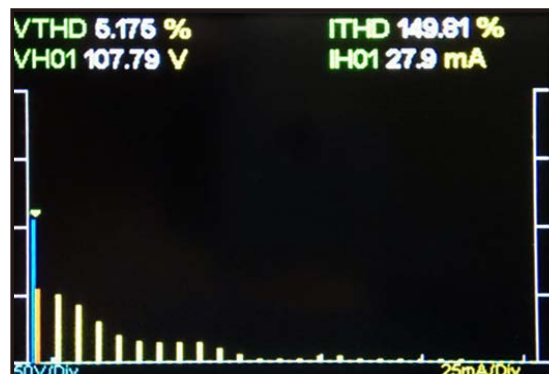
## Meter Mode

- There are Digital numeral mode and Graphic mode display, the standard is Digital numeral mode.
- Press Graph key to switch to graph display mode and press again to switch back to digital numeral mode
- Press Edit key to select the display parameters, Vrms, Arms, Watt, PF, VTHD, ITHD, VA, Freq



## Harmonic Mode

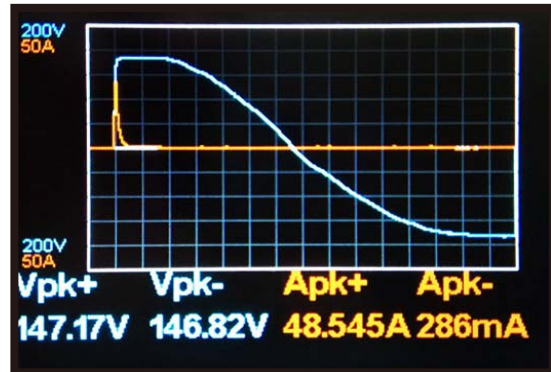
- There are Digital numeral mode and Graphic mode display, the standard is Digital numeral mode.
- Press Graph key to switch to graph display mode and press again to switch back to digital numeral mode



Press Up and Down keys to change the page, press left and right to switch V or I

### Inrush Current

- Press Edit Key to edit Voltage and Current range and built-in Power Switch's turn ON / OFF degree angle 0~359°



### Standby Power

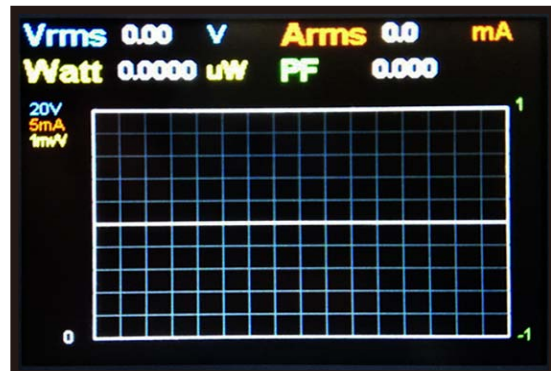
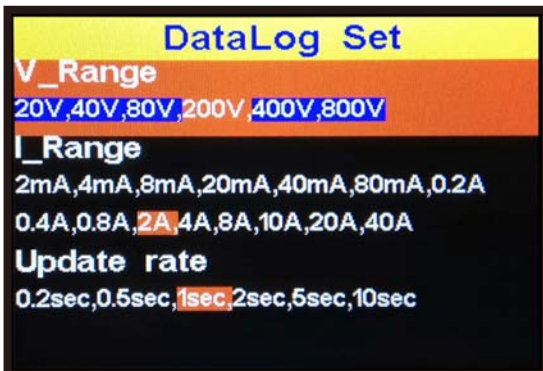
- Press Edit key to edit voltage and current range and test countdown time suitable for the EnergyStar test method.
- See the standby power test method for details.



Vrms	0.00	V
Arms	0.0	mA
Watt	0.0000	uW
VA	0.0000	uVA
Time	0000 D 00 H 00 M 00 S	
Whr		uWhr

### Data Log

- Press Edit to edit the item.
- Page 1 display Vrms, Arms, Watt, PF
- Page 2 display VTHD, ITHD



Press Up and Down keys to change the page

## Specifications

MODEL		4016		
ACV meter	Range	20Vpeak / 0.001V 40Vpeak / 0.001V 80Vpeak / 0.01V	200Vpeak / 0.01V 400Vpeak / 0.01V 800Vpeak / 0.1V	
	Max. Input	<b>800Vpeak / 500Vrms</b>		
	Accuracy	±0.1% of (Reading + Range)		
ACA	Shunt 0.05A (10Ω)	Range	0.002Apeak / 0.1uA      0.02Apeak / 0.001mA 0.004Apeak / 0.1uA      0.04Apeak / 0.001mA 0.008Apeak / 0.001mA    0.08Apeak / 0.01mA	
		Max. Input	<b>0.08Apeak / 0.05Arms</b>	
	Shunt 0.5A (1Ω)	Range	0.2Apeak / 0.01mA 0.4Apeak / 0.01mA 0.8Apeak / 0.1mA	
		Max. Input	<b>0.8Apeak / 0.5Arms</b>	
	Shunt 5A (0.04Ω)	Range	2Apeak / 0.1mA 4Apeak / 0.1mA 8Apeak / 0.001A	
		Max. Input	<b>8Apeak / 5Arms</b>	
	Shunt 20A (0.005 Ω)	Range	10Apeak / 0.001A      50Apeak / 0.001A 20Apeak / 0.001A      100Apeak / 0.01A 40Apeak / 0.001A      200Apeak / 0.01A	
		Max. Input	<b>200Apeak / 20Arms</b>	
	Accuracy		±0.1% of (Reading + Range) ±2% of (Reading + Range, for Inrush)	
	ACW	Range	Vrange*Arange	
		Accuracy	±0.2% of (Reading + Range)	
	DCV	Range	Same as AC	
Accuracy		Same as AC		
DCA	Range	Same as AC		
	Accuracy	Same as AC		
DCW	Range	Same as AC		
	Accuracy	Same as AC		
PF	Range	±0.001~1.000/0.001		
	Accuracy	1% of (Reading + Range, Corresponds to V and A)		
Frequency	Range	20~1000/0.1Hz		
	Accuracy	± 0.1 Hz		
V/A Harmonic	Number	1~50 th/ Same as ACV, ACA meter		
	Accuracy	±0.5% of (Reading + Range)		
V/A THD	Range	0%~255%/0.001%		
	Accuracy	±0.5% of (Reading + Range)		
Low Pass Filter (V & A)		50KHz		
Interface (Option)		RS-232, GPIB, USB, Ethernet		

## Order Information

▶ **4016** Digital Power Analyzer (500V / 20A)

Optional interface : ① GPIB Card ② RS232 Card ③ USB Card ④ LAN Card