

ME435 Poly-phase Handheld Power Meter



Connectivity advantages			
Model	ME435		
	3pcs BNC terminal 333mV CT		
Support Extra sensor	3pcs BNC terminal 320mV current clamp		
	3pcs BNC terminal Rogowski coil		
Ctorogo	4GB SD card(Max 4GB)		
Storage	(save intervals 1mins default)		
Davies	4*AA battery(wroking time: approx 7 hours)		
Power	Or USB Type-C		

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Feature

Specification				
Model	ME435			
Product component type	Handheld poly-phase power meter			
Poles description	3PH4W 3PH3W 1PH2W (L-N); 1PH2W(L-L);1PH3W(L-L-N)			
Device application	Power analysis Energy meter			
Input type	External Rogowski coil External CT(333mV only)			
Display	3.5 inch TFT screen display			
Sampling rate	8k samples per second			
Harmonic	52th Max			
Mechanical characteristics				
Weight	350g			
Dimension	L*W*D:21.5*10*3.5CM			

Power Meter Characteristics

The power meter measures currents and voltages and reports real-time RMS values for all 3-phases and neutral. In addition, the power meter calculates power factor, realpower, reactive power, and more.

The following sections list the metering characteristics of the power meter.

Real-Time Measuring

The following table lists the metering characteristics of the power meter for the real-time measurement:

Characteristics	Description		
Current	Per phase, neutral, and average of 3 phases		
Voltage	L-L, L-N, and average of 3 phases		
Frequency	4565 Hz		
Active power	Total and per phase (signed)		
Reactive power	Total and per phase (signed)		
Apparent power	Total and per phase(signed)		
Dower factor (True)	Total and per phase		
Power factor (True)	0.000 to 1 (signed)		
Angle	vingle Voltage angle,Current angle		
Current unbalance	Per phase, most unbalanced of 3 phases		
Voltage unbalance	most unbalanced of 3 phases		

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Minimum/Maximum Values

When any one-second real-time reading reaches its highest or lowest value, the power meter saves the minimum and maximum values in its nonvolatile memory.

From the power meter display, you can:

- view all min./max. values since the last reset and the reset date and time.
- · reset min./max. values.

All running min./max. values are arithmetic minimum and maximum values. For example, the minimum phase A-N voltage is the lowest value in the range from 0 to 999.9GV that has occurred since last reset of the min./max. values.

The power meter provides time stamping for all minimum/maximum values.

The following table lists the minimum and maximum values stored in the power meter:

Characteristics	Description	
Current	Per phase and average	
Voltage	per phase and average	
Active power	Per phase and total	
Reactive power	Per phase and total	
Apparent power	Per phase and total	

Demand Readings

The power meter provides the following demand readings.

Characteristics Description		
Current	Per phase and average	
Active, reactive, apparent power	Per phase and Total	
Peak Demand Values		
Current	Per phase and average	
Active, reactive, apparent power	Per phase and Total	

Demand Calculation Methods

Power demand is the energy accumulated during a specified period divided by the length of the period. Current demand is calculated using arithmetical integration of the current RMS values during a time period, divided by the length of the period. How the power meter performs this calculation depends on the selected method. To be compatible with electric utility billing practices, the power meter provides block interval power/current demand calculations.

For block interval demand calculations, you select a block of time (interval) that the power meter uses for the demand calculation and the mode the meter uses to handle he interval. 2 different modes are possible:

• Fixed block - Select an interval from 1 to 60 minutes (in 1 minute increments). The power meter calculates and updates the demand at the end of each interval.

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• Sliding block - Select an interval from 1 to 60 minutes (in 1 minute increments). For demand intervals less than 15

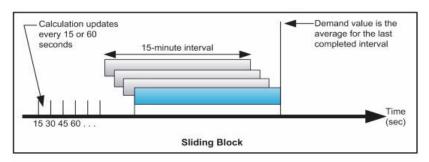
minutes, the

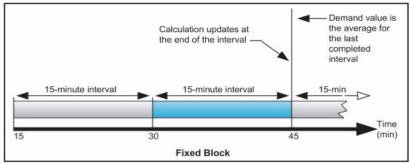
value is updated every 15 seconds. For demand intervals of 15 minutes and greater, the demand value is updated every 60 seconds. The power meter displays the demand value for the last completed interval.

The following figures illustrate the 2 ways to calculate

demand power using the block

method. For illustration purposes, the interval is set to 15 minutes.





Peak Demand

In nonvolatile memory, the power meter maintains a maximum operating demand value called peak demand. The peak is the highest value (absolute value) for each of these readings since the last reset.

You can reset peak demand values from the power meter display. You should reset peak demand after changes to basic power meter setup such as power system configuration.

Energy Readings

The power meter calculates and stores Per phase and total energy values for active, reactive, and apparent energy.

You can view energy values from the display. The resolution of the energy value automatically changes from kWh to MWh to GWh (kVAh to MVARh to GWh).

The energy values automatically resets to 0 when it reaches the limit of 999.9GWh,999.9GVAh, or 999.9GVARh.

The following table lists the energy readings from the power meter:

Characteristics	Description	
Energy values		
Active energy	0 to 999.9GWh	
Active energy	Auto reset to 0 in case of over limit	
D thur	0 to 999.9GVARh	
Reactive energy	Auto reset to 0 in case of over limit	
Apparent operay	0 to 999.9GVAh	
Apparent energy	Auto reset to 0 in case of over limit	

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Power Quality Analysis Values

The power quality analysis values use the following abbreviations:

- Fundamental phase current rms: I1
- Fundamental phase voltage rms: V1
- · RMS of up to three harmonics of phase current:

Ix, Iy, Iz, x, y,
$$z = 2, 3, ..., N$$

· RMS of up to three harmonics of phase voltage:

$$Vx, Vy, Vz, x, y, z = 2, 3, ..., N$$

•Total harmonic distortion of the phase current

$$(THD)_I = \frac{\sqrt{I^2 - I_1^2}}{I_1}$$

· Total harmonic distortion of the phase voltage

$$(THD)_V = \frac{\sqrt{V^2 - V_1^2}}{V_1}$$

Harmonic distortion of up to three harmonics on the phase current

$$HD_{I_x} = \frac{I_x}{I_1}, x = 2, 3, ..., N$$

$$HD_{I_y} = \frac{I_y}{I_1}$$
, y = 2, 3,..., N

$$HD_{I_z} = \frac{I_z}{I_1}$$
, z = 2, 3,..., N

 Harmonic distortion of up to three harmonics on the phase voltage:

$$HD_{V_x} = \frac{V_x}{V_1}$$
, x = 2, 3,..., N

$$HD_{V_y} = \frac{V_y}{V_1}$$
, y = 2, 3,..., N

$$HD_{V_z} = \frac{V_z}{V_1}$$
, $z = 2, 3, ..., N$

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THD provides a measure of the total distortion present in a waveform. THD is the ratio of harmonic content to the fundamental and provides a general indication of the quality of a waveform. THD is calculated for both voltage and current.

The following table lists the power quality values of the power meter:

Characteristics	Description
	X,Y,Z,A,B(5 times each time) Per phase current,total (percent and rms
THD	value)
	X,Y,Z,A,B(5 times each time)Per phase voltage,total (percent and rms
	value)

Data Record

The power meter records data to SD card, the following table lists data record of the power meter.

Record			
Record interval	1s to 9999s(default 1min)		
Record format	csv		
	Micro SD card 4GB(default)		
Record capacity	Store about 1K Bytes data each time		
	record 8 years (1min & 4GB)		
	Date&time,		
	Voltage(V),UTHD(%),Current(A),ITHD (%),		
	ITHD3(%),ITHD5(%), ITHD7(%), ITHD11(%), ITHD13(%),		
	ITHD3(A), ITHD5(A), ITHD7(A), ITHD11(A), ITHD13(A)		
	Frequency(Hz), PF(power factor),		
	Active Power(W),Reactive Power(Var),Apparent Power(Va),		
Record data	Active Energy(Wh),Reactive Energy(Varh),Apparent Energy(Vah)		
Record data	Current Demand(A),Current Peak Demand(A)&Date		
	Total Active Power Deamnd(W)		
	Total Active Power Peak Deamnd(W)&Date		
	Total Reactive Power Deamnd(W)		
	Total Reactive Power Peak Deamnd(W)&Date		
	Total Apparent Power Deamnd(W)		
	Total Apparent Power Peak Deamnd(W)&Date		

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Other Characteristics

The following table lists other characteristics of the power meter:

Characteristics	Description	
Reset		
Minimum and maximum values	_	
Peak demand values	_	
Current demand calculation method	1 to 60 minutes	
Power demand calculation method	1 to 60 minut	

Power demand calculation method		1 to 60 minut	
Environmental conditions			
Operating temperature	-25℃ to +55℃		
Storage temperature	-40℃ to +85℃		
Humidity rating	5 to 95% RH at 50℃(r	non-condensing)	
Pullution degree	2		
Overvoltage category	III,for distribution syste	ems up to 277/480VAC	
Dielectric withstand	nd As per IEC61010-1, Doubled insulated		
Altitude	3000m Max		
IP degree of protection	IP20 conforming to IEC 60629		
Colour	White		
Contractual warranty	12months		
EMC			
Electrostatic discharge	Electrostatic discharge Level IV(IEC61000-4-2)		
Immunity to radiated fields	Level III (IEC61000-4-3)		
Immunity to fast transients	Level IV (IEC61000-4-4)		
Immunity to surge	Level IV (IEC61000-4-5)		
Conducted immunity	Level III (IEC61000-4-6)		
Immunity to power frequency magnetic fields	0.5mT (IEC61000-4-8)		
Conducted and radiated emissions	Class B (EN55022)		
Standard compliance			
EN 62052-11,EN61557-12,EN 62053-21,EN 62053-22,EN 62053-23,EN 50470-1,EN 50470-3,			
EN 61010-1,EN 61010-2,EN 61010-031			

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Measurement accuracy					
Measurement accuracy	1004/0.5	% from 104	to 120A)		
	*	100A(0.5% from 10A to 120A)			
Rated current (5 level selectable)	•	% from 10A t			
	•	5% from 10A	·		
	-	5% from 30A	·		
		6000A(0.5% from 60A to 7200A)			
	100A		MRC-16		
	600A		MRC-36		
Rogwoski coil connect setting	1000A		Y-FCT-200 or Y-FCT-350 or NRC-100		
	3000A		NRC-150 or Y-FCT-510		
	6000A		NRC-200 or Y-FCT-800		
ST08 current clamp	5A		0.5% (100mA~5A) 1%(10mA~100mA)		
o roo carrone clamp	10A		0.5% (100mA~10A) 1%(10mA~100mA)		
CTs connect setting	Primary s	etting:	from 1A to 999999A		
O 13 COMMECT SETTING	Secondar	y setting:	from 0.001mV to 333mV		
Voltage	0.2% fron	0.2% from 60V to 500V			
Power factor	±0.005	±0.005			
Active/Apparent Power	IEC62053	IEC62053-22 Class 0.5			
Reactive power	IEC62053-21 Class 2				
Frequency	0.01% from 45 to 65Hz				
Active energy	IEC62053	IEC62053-22 Class 0.5s			
Reactive energy	IEC62053	IEC62053-21 Class 2			
Input-current characteristics					
	100A	100A 0.5A to 120A			
	600A	600A 0.5A to 720A			
Primary current range	1kA	1kA 1A to 1200A			
	3kA	3kA 3A to 3600A			
	6kA 6A to 7200A				
Measurement input range	1/2 ²⁵ mV-3	33mV			
Permissible overload	600mV fo	r 10s/hours			
Power Supply					
Davies		4*AA batte	ery(working time: approx. 7hours)		
Power		USB Type-C			
power consumption					
Screen Backlight On	1100mW				
Screen Backlight Off	900mW				
Wire diameter for terminals					
Current input	BNC connector				
Voltage input	Banana plug				
DC power supply	DC 5.5*2.1 plug				

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Port definition

Port number	Port name	Port function	Remarks	
1	IA	A-phase current input	Current input	
2	IB	B-phase current input		
3	IC	C-phase current input		
4	UN	N-phase voltage input	· Voltage input	
5	UC	C-phase voltage input		
6	UB	B-phase voltage input		
7	UA	A-phase voltage input		
8	Power	USB Type-C	USB Type-C	
9	Micro SD	SD card	Take out(in) SD card	

Accessories

Accessories	
Voltage wires	4pcs voltage clamp wires with banana plug (2 meters,1.5mm²)
Adaptor	85-265 AC to 9V DC adaptor
SD card	1GB
Remark	Rogowski coil and AA battery not included

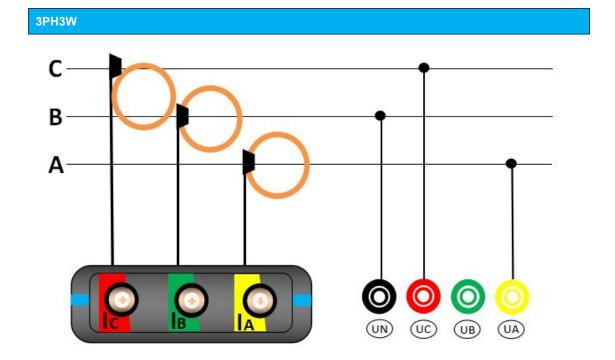
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Wiring

- *: Rogowski coil secondary output voltage can not over 333mV rms.
- ^: CT must be voltage output, secondary output can not over 333mV rms.

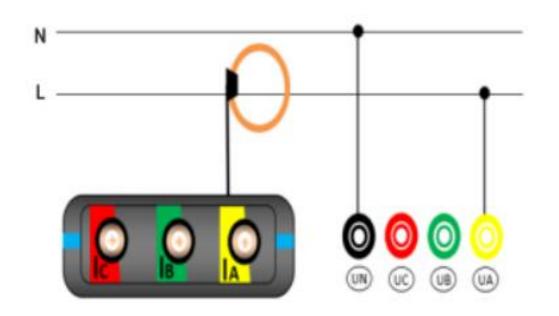
N C B A O O O O O



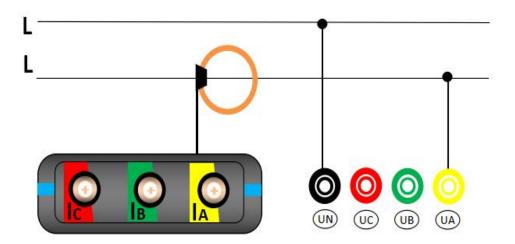
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1PH2W L-N

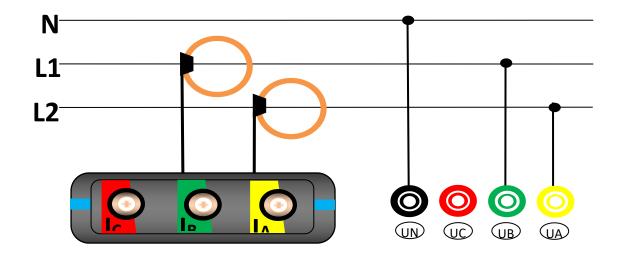


1PH2W L-L



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1PH3W L-L-N



Installation

Current input



Voltage input



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Battery



Power and SD Card



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Meter operation

Introduction

The power meter features a panel with TFT LCD, a graphic display, and contextual menu buttons for accessing the information required to operate the power meter and modify parameter settings.

The Navigation menu allows you to display, configure, and reset parameters

Configuration mode

The default factory settings are listed in the following table:

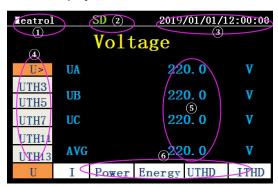
Function	Factory settings		
	3PH4W;		
Wiring	VT Direction connection;		
vviilig	3 Rcoils on I1, I2, and I3		
	50Hz		
Ratio	Rcoil FSA=1000A		
Ratio	VT ratio=NA		
SD Card	Switch=ENABLE		
3D Cald	Period=60s		
	H1=3		
	H2=5		
Harmonic	H3=7		
	H4=9		
	H5=11		
Password(Low)	1000		
Date/Time	-		
	Switch=ON		
BackLight	Period=60s		
	Backlight=5		
Demand	Method: sliding block;		
Demand	Interval: 15 minutes		

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Interface

1. Date display Interface



- (1) Company name
- SD card state

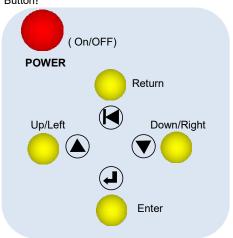
Green: SD card working Red: Do not find SD card

Yellow:SD card not working

- (3) Date and Time.
- (4) From left to right, Voltage---Current---Power---Energy---

Voltage harmonic---Current harmonic

Button:



Area @switch by "Up/Down"

Area ⑥swtich by long press "Left/Right"

Menu or Exit switch by "Return"

Enter secondary swtich by "Enter"

Noted: After entering the subinterface, long press the up and down key can't switch the bottom item, you need to return to the main interface to switch

2. Voltage display Interface

L eatrol		SD 2019/01/01/12:00:00				
		Volt	age			
U>	UA		22	0.0	V	
UTH3 UTH5	UB	220. 0 V				
UTH7	UC	220. 0 V				
UTH11 UTH13	AVG	220. 0 V			V	
U	I	Power	Energy	UTHD	ITHD	

Left Area from top to bottom:

"U>" Voltage RMS value(Secondary interface)

"UTH3" X times Voltage harmonic RMS value

"UTH5" Y times Voltage harmonic RMS value

"UTH7" Z times Voltage harmonic RMS value

"UTH11" A times Voltage harmonic RMS value

"UTH13" B times Voltage harmonic RMS value

Voltage RMS value "U>" press "Enter" switch to Voltage Secondary interface

2.1 Voltage Secondary Interface

L eatrol		SD 2019/01/01/12:00:00				
		Volt	age/	Max.		
Max.	UA		22	0.0	V	
Min. Ubl	UB	220. 0 V				
Angle	UC	220. 0 V				
CL	AVG		22	0.0	V	
U	I	Power	Energy	UTHD	ITHD	

Left Area from top to bottom:

"Max." Voltage Maximum value

"Min." Voltage Minimum value

"Angle" Voltage Unbalance degree

"UL" Line Voltage value

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3. Current display interface

L eatrol		SD 2019/01/01/12:00:00			
		Cur	rent		
[>	IA		10	0.0	A
ITH3	IB		10	0.0	A
ITH5	IC		10	0.0	A
ITH7	AVG		10	0.0	A
ITH13	IN		10	0.0	A
U	I	Power	Energy	UTHD	ITHD

Left Area from top to bottom:

"I>" Current RMS value(Secondary interface)

"ITH3" X times Current harmonic RMS value

"ITH5" Y times Current harmonic RMS value

"ITH7" Z times Current harmonic RMS value

"ITH11" A times Current harmonic RMS value

"ITH13" B times Current harmonic RMS value

Current RMS value "U>" press "Enter" switch to Current Secondary interface

3.1 Current Secondary interface

I eatrol		SD 2019/01/01/12:00:00					
	Current\Demand						
DMD	IA		2	0.0	A		
DPK> Max.	IB		2	0. 0	A		
Min.	IC		2	0. 0	A		
Ubl Angle	AVG		2	0.0	A		
U	I	Power	Energy	UTHD	ITHD		

Left Area from top to bottom:

"EMD" Current demand

"DPK>"Current Maximum demand(Third interface)

"Max." Current Maximum value

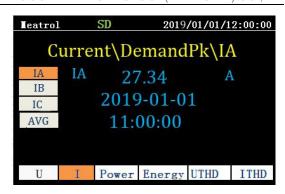
"Min." Current Minimum value

"Ubl" Current unbalance degree

"Angle" Current angle

Current Maximum demand(Third interface)(DPK>) press "Enter" to switch.

3.1.1 Current Maximum demand(Third interface)



Left Area from top to bottom:

"IA" Phase A Current Maximum demand

"IB" Phase B Current Maximum demand

"IC" Phase C Current Maximum demand

"AVG" Total Average Current Maximum demand

4. Power display interface

I eatrol	SD 2019/01/01/12:00		
	Active	e Power	
P>	PA	20.9	W
Q> S>	PB	20.9	W
PF	PC	20.9	W
DPF	SUM	20.9	w
U	I Powe	er Energy UTHD	ITHD

Left Area from top to bottom:

Active Power(Secondary interface)

Reactive Power(Secondary interface)

Apparent Power(Secondary interface)

Power Factor

Fundamental Power Factor

(Secondary interface) press Enter to switch

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4.1 Active Power(Secondary interface)

I eatrol		SD	2019	/01/01/	12:00:00
) 3	Activ	re Po	wer\	DMD	
DMD	PA		2	0.9	W
Dpk> Max.	PB		2	0. 9	w
Min.	PC		2	0.9	W
	SUM		2	0. 9	W
U	I	Power	Energy	UTHD	ITHD

Left Area from top to bottom:

"DMD" Active Power Demand

"Dpk>" Active Power Maximum Demand(Third interface)

"Max." Active Power Maximum Value

"Min." Active Power Minimum Value

"Dpk>" Active Power Maximum Demand(Third interface) press Enter to switch

4.1.1 Active Power Maximum Demand(Third interface)



Left Area from top to bottom:

"PA" Phase A Active Power Maximum Demand

"PB" Phase B Active Power Maximum Demand

"PC" Phase C Active Power Maximum Demand

"SUM" Total phase Active Power Maximum Demand

Noted:Reactive Power(Q>) and Apparent Power (S>) Interface is similar to above

5. Energy display interface

SD 2019/01/01/12:00:00 **I**eatrol **Active Energy** 20.9 **EPA** $\mathbf{w}\mathbf{h}$ EQ **EPB** 20.9 wh ES 20.9 Freq **EPC** wh 62.7 SUM wh I Power Energy UTHD ITHD

Left Area from top to bottom:

"EP" Active Energy

"EQ" Reactive Energy

"ES" Apparent Energy
"Freq" Frequency

6. Voltage harmonic display interface

I eatrol	SD 2019/01/01/12:00:00						
	Voltage THD						
Uthd	UA			1. 0	%		
THD3	UB			1. 0	%		
THD5	dD			1. 0	70		
THD7	UC			1.0	%		
THD11							
THD13							
U	I	Power	Energy	UTHD	ITHD		

Left Area from top to bottom:

"Uthd" Total Voltage harmonic percent

"THD3" X times Voltage harmonic percent

"THD5" Y times Voltage harmonic percent

"THD7" Z times Voltage harmonic percent

"THD11" A times Voltage harmonic percent

"THD13" B times Voltage harmonic percent

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7. Current harmonic display interface

I eatrol		SD	2019/	01/01/1	12:00:00
	Cı	ırrer	nt TH	D	
ITHD	UA			1.0	%
ITH3	III			1. 0	%
ITH5	UB			1. 0	70
ITH7	UC			1.0	%
ITH11					
ITH13					
U	I	Power	Energy	UTHD	ITHD

Left Area from top to bottom:

"ITHD" Total Current harmonic percent

"ITH3" X times Current harmonic percent

"ITH5" Y times Current harmonic percent

"ITH7" Z times Current harmonic percent

"ITH11" A times Current harmonic percent

"ITH13" B times Current harmonic percent

8. Menu Interface



Press "Return" to switch

Press "Up/Down" and "Enter" to choice "Data" "Set" or "Info"

9. Setting Interface.



Enter "Set" on Menu interface.

Enter Password(Low):1000 (default)

Press Up/Down to change number.

Long press "Up/Down" to change display number position.

9.1 System Setting Operation



Left Area from top to bottom:

"Wire" Wiring setting

"Ratio" Rated current selection and VT ratio setting.

"SD Card" SD card setting

"Harmonic" Harmonic times setting

"Password" Password change setting

"Date/Time" Date/Time change setting

"Backlight" Backlight adjust

"Demand" Demand setting

"Reset" Reset Energy/Min/Max value

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9.1.1 Wire setting



Press Enter ,change to next line.

Press Up/Down, modify value on current line.

"Mode" Choice wiring type

"3PH4W" three phase 4 wire

"3PH3W" three phase 3 wire

"1PH2W_LL" single phase 2 wire L_L type

"1PH2W_LN" single phase 2 wire L_N type

"1PH3W_LLN" single phase 3 wire L_L_N type

"Vcon" Select Voltage sensor connect or not

"DirectCon": Voltage directly input.No VT

"3VT": 3pcs voltage sensor connect

"Icon" Select Rogowski coil or CT connect

"CTCon": 333mV Current Transformer connect

"RcoilCon": Rogowski coil connect directly(No integrator connect)

"Freq" Choice frequency

50Hz

60Hz

Noted: Out of Wire setting interface, will have "Save Changes" notifications, must press "Enter" to Save modify. If press "Return", the modify can't be save.

9.1.2 Ratio Setting



Press Enter ,change to next line.

Press Up/Down, modify value on current line.

Long press Up/Down, change display number position.

Rcoil FSA: Rated Current

100A/600A/1kA/3kA/6kA selection

Rcoil Value: each Rated current corresponding only one

ratio of Rogowski coil,can't be change.

100A 50mV/kA@50Hz

600A 50mV/kA@50Hz

1kA 85mV/kA@50Hz

3kA 85mV/kA@50Hz

6kA 50mV/kA@50Hz

VT sec: Voltage sensor Secondary output value
VT PRI: Voltage sensor Primary input value

Noted: If Choice RcoilCon in "Wire" setting, Then this interface will show Rogowski coil rated current selection.

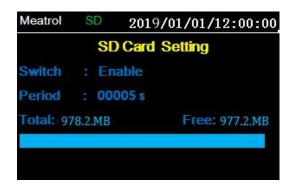
If Choice "CTCon",this setting is setting CT primary and secondary

If Choice "DirectCon", the VT ratio setting will not display in this interface.

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9.1.3 SD card setting



Press Enter, change to next line.

Press Up/Down, modify value on current line.

Long press Up/Down, change display number position.

"Switch" choice Enable or Disable record function

"Enable" start record function

"Disable" stop record function.

"Period" setting record interval time.(from 1s to 99999s)

9.1.4 Harmonic times setting

Meatrol	SD	2015/01/01 12:00:00
	Harm	onic Setting
H1	: 3	
H2		
НЗ	: 7	
H4	: 11	
H5	: 13	

Press Enter ,change to next line.

Press Up/Down, modify value on current line.

Long press **Up/Down**,change display number position.

Could measure 5 different times harmonic.

Setting times range: 2 to 52 times.

9.1.5 Password setting



Press Enter, change to next line.

Press Up/Down, modify value on current line.

Long press Up/Down, change display number position.

Password default is 1000

Enter again "set" interface, should enter new password after modify.

9.1.6 Date/Time Setting



Press Enter ,change to next line.

Press Up/Down, modify value on current line.

Long press **Up/Down**,change display number position.



9.1.6 BackLight setting



"Switch" choice back light mode.

ON: back lights on always

KEY: Automatic back light off

"Period" Setting Automatic back light off time

"Backlight" setting brightness from 1 to 9

KEY principle:

can't detect any press operation after Period time, back light off.Any press operation,light on.

9.1.7 Demand setting



Press Enter, change to next line.

Press Up/Down, modify value on current line.

Long press $\mbox{\bf Up/Down}, \mbox{change display number position}.$

"Method" choice demand type:

Sliding: Time sliding mode Fixed: Time fixed mode

Interval (Min): from 1 to 60 minute

9.1.8 Reset setting



Press Enter, change to next line.

Press Up/Down, modify value on current line.

Long press Up/Down, change display number position

MnMx: Reset Minimum/Maximum value DMDPk: Reset Maximum Demand value

Energy: Reset Energy

10. "Info" interface



Info interface is used for display the information

Model: meter Model No.

FW Ver: Meter Firmware version Number

SN: Series Number

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