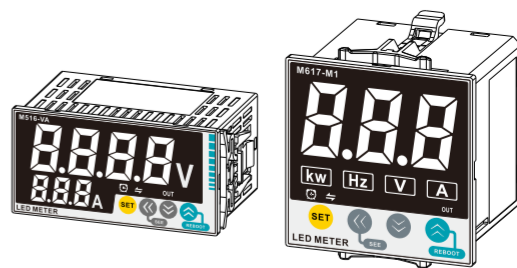


智能数显表说明书

Digital display intelligent meter

型号说明 Model description:



M6 37 - M1 / S2 - M CT / -

壳体样式分类
Housing style classification

面板样式分类
Panel style classification

功能定制备注

Function customization:

功能代码为4位组合数(生产建档备注)

The function code is a 4-bit combination number

特殊测量范围备注项

Special measuring range remarks:

互感器外置时,此处标注变比值

When transformer is external, the variable ratio is marked here

控制输出 Control output

M1---控制单继电器输出

Control the output of single relay

M2---控制双继电器输出(上限+下限输出)

Control the output of double relay

T---控制输出SSR (DC12V)

Control output SSR (DC 12V)

V---电压模拟量输出 (0~10V)

Output of analog voltage (0~10V)

A---电流模拟量输出 (4~20mA)

Output of analog current (4~20mA)

无字符Blank---无控制输出No output

Input signal

CT ---电流互感器(内置)

Current mutual inductor (internal)

CT1---电流互感器(外置)

Current mutual inductor (external)

PT ---电压互感器(内置)

Voltage mutual inductor (internal)

PT1---电压互感器(外置)

Voltage mutual inductor (external)

BTS ---分流器(内置)

Instrument shunt (internal)

BTS1---分流器(外置)

Instrument shunt (external)

通讯 Communication:

R---RS485 (MODBUS协议)

空置Blank---无通讯Non communication

工作电源

Working power supply

T1--电源(变压器):AC-220V,50/60HZ
Power supply (Transformer)

T2--电源(变压器):AC-380V,50/60HZ
Power supply (Transformer)

S1--开关电源:AC/DC -20~80V
Switching power supply

S2--开关电源:AC/DC -80~260V
Switching power supply

产品分类 Product classification

M1: 电压电流多显表 Voltage and current multi-display meter

VA: 电压电流双显表 Voltage and current double display meter

A3: 三相电流表 Three-phase ammeter

V3: 三相电压表 Three-phase voltmeter

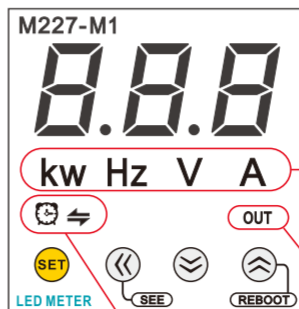
主要技术参数 Main technical parameters

- 采样速率约200mS/次, 测量精度: +0.5%
The sampling rate is about 200mS /times, and the measurement accuracy is +0.5%
- 仪表最大功耗 Maximum power consumption: 6W
- 测量输入信号频率范围 Measuring range: 0~99.9Hz (出厂默认值 factory settings)
- 环境: 温度-30~60℃, 湿度≤85%RH 的无腐蚀的场所
Environment: The temperature is -30~60℃ and the humidity is ≤85%RH, which is a non-corrosive place
- 报警输出继电器触点容量 Output relay contact capacity: AC 250V 3A (阻性负载 Resistive load)

产品外形及安装开孔尺寸 Product appearance and installing size

产品规格 Specifications	外形尺寸 External dimension 高×宽×深(mm) Height×width×depth (mm)	面板开孔尺寸 Panel hole dimension 高×宽(mm) Height×width (mm)
M2□□-	48×48×66	46×46
M5□□-	48×96×66	46×92
N6□□-	72×72×66	67×67
N8□□-	80×80×66	76×76
M9□□-	96×96×66	92×92
N2□□-	48×48×46	45.5×45.5
N5□□-	48×96×46	45×90.5
N6□□-	72×72×46	66.5×66.5
N8□□-	80×80×46	76×76

面板显示及功能区描述 Display and description:



kw ---功率检测 Power

Hz ---频率检测 Frequency

V ---电压检测 Voltage

A ---电流检测 Current

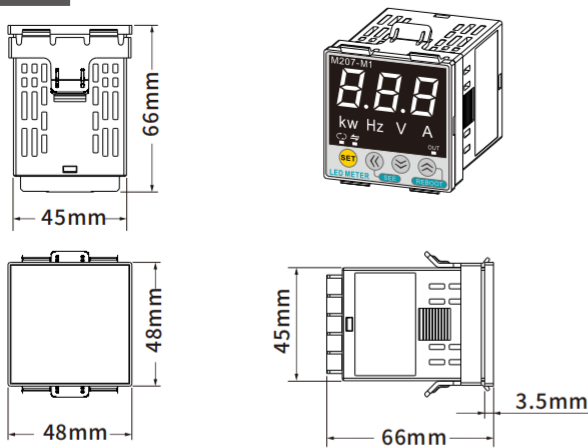
控制输出指示 Output

---定时指示 Display time

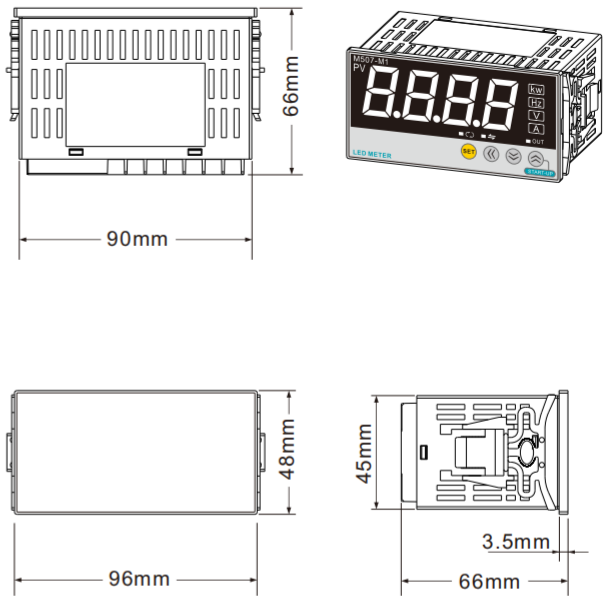
---通讯指示 Display communication

产品外形尺寸 Product appearance and size:

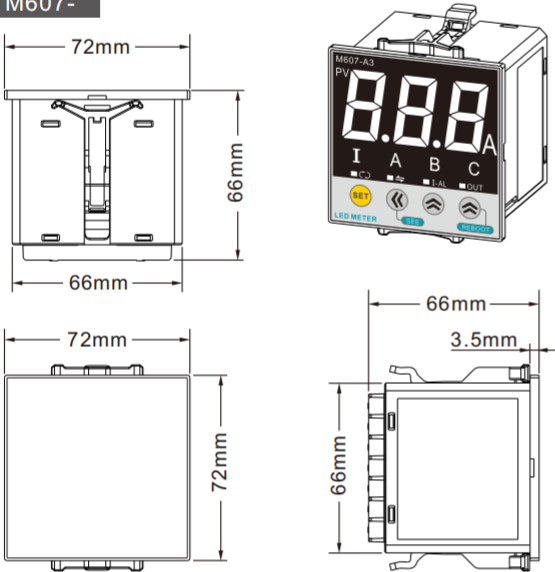
M207-



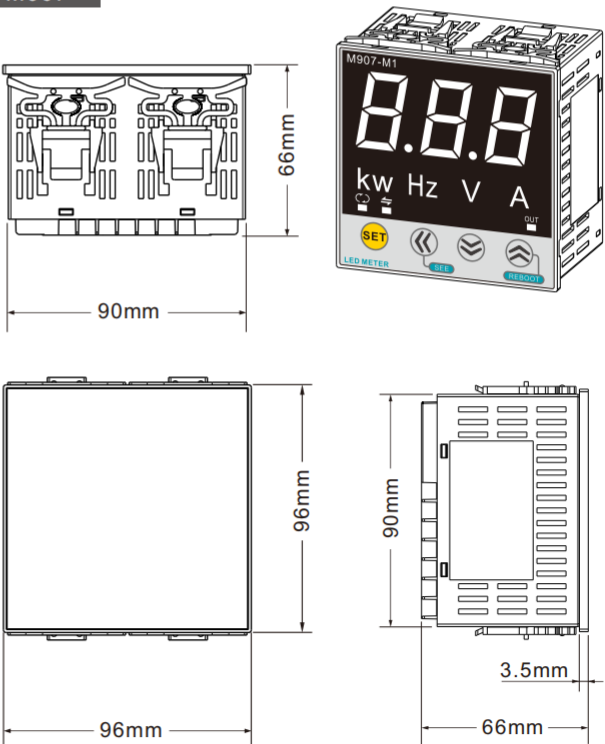
M507-



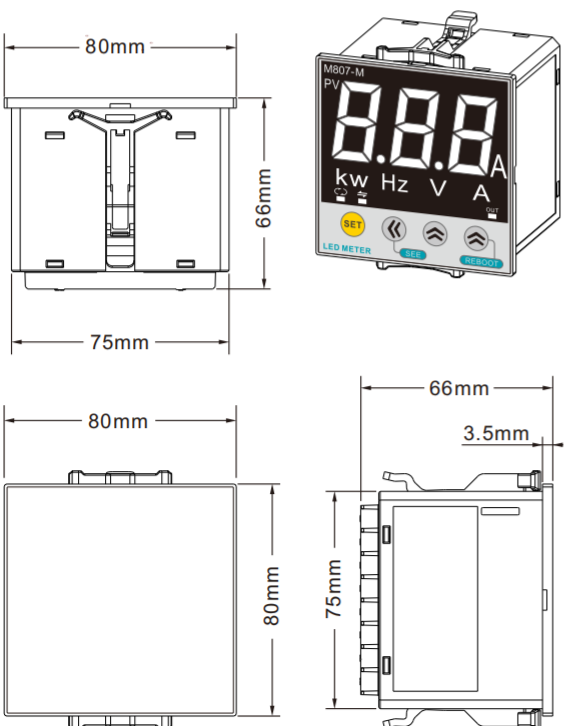
M607-



M907-



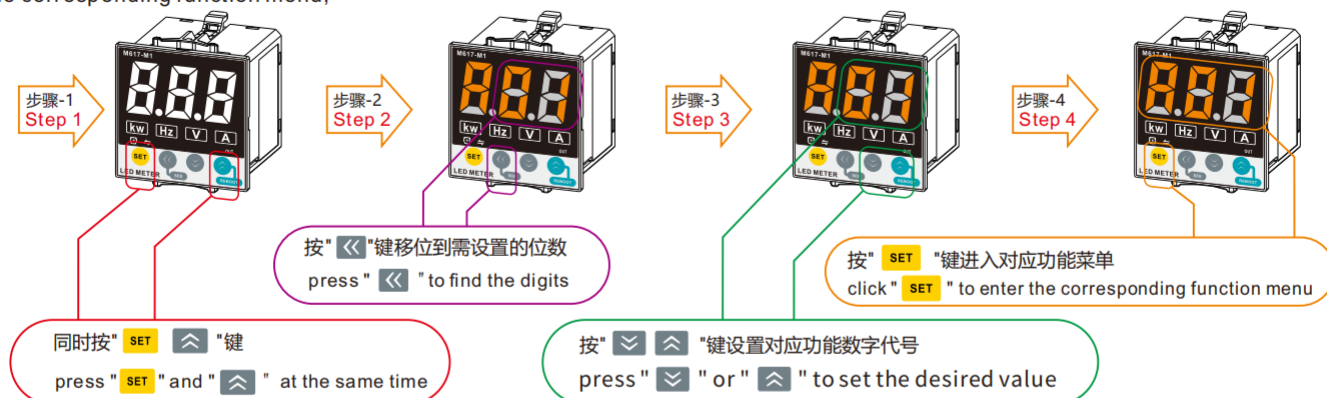
M807-



参数设定模式进入说明 Parameter setting

在通电正常显示状态下,同时按压"SET"和"↵"键使数字显示栏显示处于闪烁状态,再按移位键"⏪"找到需设定的位数,再按"↵"或"↩"键设定到所需值,设定完毕后,再次单击"SET"键进入对应功能菜单;

In the power-on normal display state, press "SET" and "↵" at the same time to make the digital display bar in a flashing state, then press "⏪" to find the digits, next, press "↵" or "↩" to set the desired value, after setting, click "SET" to enter the corresponding function menu;



功能菜单对照表Function menu comparison table :

对应功能编号 Corresponding function number	对应功能类型 Corresponding function type	设置对应菜单 Set the corresponding menu
A01	巡显功能设置 Alternate display	设置Setting 1
A02	显示亮度设置 Luminance	设置Setting 2
A03	电流互感器参数设置 Current mutual inductor	设置Setting 3
A04	电压互感器参数设置 Voltage mutual inductor	设置Setting 4
A05	过流上限保护输出设置 Overcurrent upper limit protection	设置Setting 5
A06	过流下限保护输出设置 Overcurrent lower limit protection	设置Setting 6
A07	过压保护输出设置 Overvoltage protection	设置Setting 7
A08	欠压保护输出设置 Undervoltage protection	设置Setting 8
A09	缺相保护设置 Open-phase protection	设置Setting 9
A10	巡显速度设置 Alternate display speed	设置Setting 10
A11	电流保护延时输出设置 Current protection, delay output	设置Setting 11
A12	保护功能(开启/关闭)设置 Protection function (on/off)	设置Setting 12
A13	保护功能复位模式设置 Protection function (reset mode)	设置Setting 13
A21	电流保护延时复位设置 Current protection delay reset setting	设置Setting 21
A71	电压显示值误差设置 Voltage (error value)	设置Setting 71
A72	电流显示值误差设置 Current (error value)	设置Setting 72
A97	设备功率虚拟倍数设置 Power virtual multiple	设置Setting 97
A98	通讯设置 Communication	设置Setting 98
A99	整机重置出厂设置 Reset the instrument to original settings	设置Setting 99

Note: Due to specification differences, some instruments do not include the following function settings
注:因规格差异部分表型不包含以下菜单功能设置

设置Setting 1

888

巡显功能设置 Alternate display

在进入"巡显功能设置"状态下，按压移位键"⬅️"移到"kw""Hz""V""A"对应(三相表为:"A""B""C"选项)的显示栏,按"⬇️"键可关闭（灭灯）退出巡显，按"⬆️"键可开启（亮灯）加入巡显，设置完成后长按"SET"键1秒以上或无操作10秒钟将自动退出设置界面。

In the state of "alternate display function setting",press "⬅️" to move to the corresponding column of "kw","Hz","V" and "A" (Three phase meter is: "A","B" and "C" option), press "⬇️" to close (turn off the light) to exit;press "⬆️" to open (turn on the light) to start.For all the following function settings, after each setting,press "SET" for more than 1 second, or no operation for 10 seconds will automatically exit the setting.

设置Setting 2

888

显示亮度设置 Luminance

在进入"显示亮度设置"状态下，根据使用场景需要按压"⬆️"键或"⬇️"键可加减选择所需的亮度，设置完成后长按"SET"键1秒以上或无操作10秒钟将自动退出设置界面。

After entering, press "⬆️" or "⬇️" to select the required brightness. For all the following function settings, after each setting, press "SET" for more than 1 second, or no operation for 10 seconds will automatically exit the setting.

设置Setting 3

888

电流互感器参数设置 Current mutual inductor

在进入"电流互感器参数设置"状态下，按压移位键"⬅️"并配合"⬆️""⬇️"键调整到相应的倍数，设置完成后长按"SET"键1秒以上或无操作10秒钟将自动退出设置界面。

After entering, press "⬅️" and cooperate with the "⬆️" and "⬇️" to adjust to the corresponding multiple.For all the following function settings , after each setting , press "SET" for more than 1 second , or no operation for 10 seconds will automatically exit the setting.

设置显示Display	对应互感器变比 Ratio of mutual inductor	测量范围 Range
888	1000 倍 (出厂默认值) 1000 times (original value)	0~100A (外置互感器) External mutual inductor
		0~10A (内置互感器) Internal mutual inductor

设置显示Display	对应互感器变比 Ratio of mutual inductor	互感器二次输入使用量程 Secondary input of mutual inductor (内置互感器产品) Internal mutual inductor
888	100 倍 times	0~999A
088	60 倍 times	0~600A
040	40 倍 times	0~400A
020	20 倍 times	0~200A
010	10 倍 times	0~100A

设置Setting 4

A04

电压互感器参数设置 Voltage mutual inductor

在进入电压互感器参数设置状态下，按压移位键"**<<**"并配合"**>**"和"**>>**"键调整到相应的倍数，设置完成后长按"**SET**"键1秒以上或无操作10S后自动退出设置界面。

After entering, press "**<<**" and cooperate with the "**>**" and "**>>**" to adjust to the corresponding multiple. For all the following function settings, after each setting, press "**SET**" for more than 1 second, or no operation for 10 seconds will automatically exit the setting.

设置显示 Display	对应变比 Ratio	测量范围(出厂默认值) Range (original value)
001	1 / 1 (出厂默认值 Original value)	0~750V

注：因使用环境或配套信号元件误差引起测量显示数值与实际值的差异,可通过调整变比值来改善解决。

Note: The difference between the displayed value and the actual value caused by the error of using environment or supporting signal components can be improved by adjusting the variable ratio.

设置Setting 5

A05

过流上限保护输出设置 Overcurrent upper limit protection

在进入"过流上限保护输出设置"状态下，按压移位键"**<<**"并配合"**>**"和"**>>**"键调整到所需启动保护的数值（出厂默认值为"060"即60A启动保护,此设置需在保护功能开启状态下才能正常使用），设置完成后长按"**SET**"键1秒以上或无操作10S后自动退出设置界面。

After entering, press "**<<**" and cooperate with "**>**" and "**>>**" to adjust to the required value of startup protection (the original value is "060", that is, 60A startup protection, and this setting can only be used normally when the protection function is turned on). For all the following function settings, after each setting, press "**SET**" for more than 1 second, or no operation for 10 seconds will automatically exit the setting.

设置Setting 6

A06

过流下限保护输出设置 Overcurrent lower limit protection

在进入"过流下限保护输出设置"状态下，按压移位键"**<<**"并配合"**>**"和"**>>**"键调整到所需启动保护的数值（最初值为"001"出厂默认1A以下不启动保护,此设置需在保护功能开启状态下才能正常使用），设置完成后需长按"**SET**"键1秒以上或无操作10S后自动退出设置界面。

After entering, press "**<<**" and cooperate with "**>**" and "**>>**" to adjust to the required value of startup protection (the original value is "001", that is, less than 1A, do not start protection; and this setting can only be used normally when the protection function is turned on). For all the following function settings, after each setting, press "**SET**" for more than 1 second, or no operation for 10 seconds will automatically exit the setting.

设置Setting 7

A07

过压保护输出设置 Overvoltage protection

在进入"过压保护输出设置"状态下，按压移位键"**<<**"并配合"**>**"和"**>>**"键调整到所需启动保护的数值（出厂默认值为"450"即450V启动保护,此设置需在保护功能开启状态下才能正常使用），设置完成后长按"**SET**"键1秒以上或无操作10S后将自动退出设置界面。

After entering, press "**<<**" and cooperate with "**>**" and "**>>**" to adjust to the required value of startup protection (the original value is "450", that is, 450V startup protection, and this setting can only be used normally when the protection function is turned on). For all the following function settings, after each setting, press "**SET**" for more than 1 second, or no operation for 10 seconds will automatically exit the setting.

设置Setting 8



欠压保护输出设置 Undervoltage protection

在进入"欠压保护输出设置"状态下, 按压移位键" << "并配合" > " " > "键调整到所需启动保护的数值(出厂默认值为"165"即165V启动保护,此设置需在保护功能开启状态下才能正常使用), 设置完成后长按" SET "键1秒以上或无操作10S后将自动退出设置界面。

After entering, press " << " and cooperate with " > " and " > " to adjust to the required value of startup protection (the original value is " 165 ", that is, 165V startup protection, and this setting can only be used normally when the protection function is turned on). For all the following function settings, after each setting, press " SET " for more than 1 second, or no operation for 10 seconds will automatically exit the setting.

设置Setting 9



缺相保护设置 Open-phase protection

在进入"缺相保护设置"状态下, 按移位键" << "并配合" > " " > "键选择开启(ON)或关闭(OFF)保护功能(出厂默认值为"OFF",即保护关闭), 设置完成后长按" SET "键1秒以上或无操作10S后将自动退出设置界面。

After entering, press " << " and cooperate with " > " and " > " to choose to turn on or off the protection function. (the original is "OFF", that is, close protection). For all the following function settings, after each setting, press " SET " for more than 1 second, or no operation for 10 seconds will automatically exit the setting.

设置Setting 10



巡显速度设置 Alternate display speed

在进入"巡显速度设置"状态下, 按压移位键" << "并配合" > " " > "键调整到所需巡显速度(出厂默认显示切换时间为2秒), 设置完成后长按" SET "键1秒以上或无操作10S后将自动退出设置界面。

After entering, press " << " and cooperate with " > " and " > " to adjust to the required speed. (The original switching time is two seconds.). For all the following function settings, after each setting, press " SET " for more than 1 second, or no operation for 10 seconds will automatically exit the setting.

设置Setting 11



电流保护延时输出设置 Current protection, delay output

电流保护功能启用状态下, 保护延时输出的设置可有效解决频繁启动引起的误动作;如需改变时间值在进入" 过流保护延时输出设置"状态下, 根据实际使用的场景按压移位键" << "并配合" > " " > "键调整到所需启动保护的时间数值(出厂默认设置为延时1.5秒后启动), 设置完成后长按" SET "键1秒以上或无操作10S后自动退出设置界面。

After the current protection function is turned on, the misoperation caused by frequent startup can be effectively solved; if you need to change the time, then enter this mode, press " << " and cooperate with " > " and " > " to adjust to the required time of starting protection (the original is delayed for 1.5 seconds before starting). For all the following function settings, after each setting, press " SET " for more than 1 second, or no operation for 10 seconds will automatically exit the setting.

设置Setting 12



保护功能(开启/关闭)设置 Protection function (on/off)

在进入"保护功能(开启/关闭)设置"状态下, 按移位键" << "并配合" > " " > "键选择开启(ON)或关闭(OFF) (只有在此功能开启状态下保护输出项设置才生效, 出厂默认值为"OFF",即功能关闭), 设置完成后长按" SET "键1秒以上或无操作10S后将自动退出设置界面。

After entering, press " << " and cooperate with " > " and " > " to choose to turn on or off the function. (Only when this function is turned on, the setting of output protection takes effect, and original is "OFF", that is, the function is turned off.). For all the following function settings, after each setting, press " SET " for more than 1 second, or no operation for 10 seconds will automatically exit the setting.

设置Setting 13



保护功能复位模式设置 Protection function (reset mode)

在进入"保护输出复位模式设置"状态下, 按压移位键"⏪"并配合"⏴"和"⏵"键选择"OFF"(关闭自动复位功能)每次保护启动后需手动按"⏴"键才能复位; 选择"ON"(开启自动复位功能)每次保护启动后检测数值恢复正常状态其保护输出的执行信号将自动复位, 设置完成后长按"SET"键1秒以上或无操作10S后将自动退出设置界面。

After entering, press "⏪" and cooperate with "⏴" and "⏵" to select "OFF" (turn off the automatic reset function), need to press "⏴" to reset after each protection start; Select "ON" (turn on the automatic reset function), when the detected value return to the normal state, its signal will be automatically reset. For all the following function settings, after each setting, press "SET" for more than 1 second, or no operation for 10 seconds will automatically exit the setting.

设置Setting 21



电流保护延时复位设置 Current protection delay reset setting

电流保护功能启用状态下, 电流保护延时复位设置可有效解决快速复位引起的误动作;如需改变复位时间值,在进入"过流保护延时复位设置"状态下, 根据实际使用的场景按压移位键"⏪"并配合"⏴"和"⏵"键调整到所需启动复位的时间数值(出厂默认设置为延时1秒后启动), 设置完成后长按"SET"键1秒以上或无操作10S后自动退出设置界面。

When the current protection function is enabled, the delay reset setting of current protection can effectively solve the misoperation caused by rapid reset; If you need to change the reset time value, when you enter the state of "overcurrent protection delay reset setting", according to the actual scene, press "⏪" and cooperate with "⏴" and "⏵" to adjust the time value that needed to start the reset (the factory default setting is to start after a delay of 1 second). For all the following function settings, after each setting, press "SET" for more than 1 second, or no operation for 10 seconds will automatically exit the setting.

设置Setting 97



设备功率虚拟倍数设置 Power virtual multiple

在进入"设备功率虚拟倍数设置"状态下, 按压"⏴"和"⏵"键将初始数"001"调整所需虚拟倍数,此功能适合被检测设备实际为多路, 检测值采样为其中一路时,通过调整虚拟倍数把设备实际功率展现在显示窗口上,置完成后长按"SET"键1秒以上或无操作10S后将自动退出设置界面。

After entering, press "⏴" and "⏵" to adjust the initial number "001" to the required virtual multiple value. This function is suitable for the actual multi-channel of the detected equipment. When the detection sampling is one of the channels, the actual power of the equipment can be displayed by adjusting. For all the following function settings, after each setting, press "SET" for more than 1 second, or no operation for 10 seconds will automatically exit the setting.

设置Setting 98



通讯设置 Communication

在进入"通讯设置"状态下, 按压移位键"⏪"并配合"⏴"和"⏵"键将设备初始号"001"调整为"123"后再按"SET"键会直接进入通讯菜单,设置完成长按"SET"键1秒以上或无操作10S后自动退出设置界面;具体操作步骤说明请扫码(右图)下载查阅。



After entering, press "⏪" and cooperate with "⏴" and "⏵" to adjust the initial number of equipment "001" to "123"; then press "SET" to directly enter the communication menu. For all the following function settings, after each setting, press "SET" for more than 1 second, or no operation for 10 seconds will automatically exit the setting. Please scan the code (right figure) to download and view the specific operation steps

设置Setting 99



整机重置出厂设置 Reset the instrument to original settings

在进入"重置出厂设置"状态下, 按压"⏴"和"⏵"键将初始数"000"调整为"123"后再按"SET"键会自动刷新为"000"即恢复产品出厂所有参数值的重置,设置完成后长按"SET"键1秒以上或无操作10S后将自动退出设置界面。

After entering, press "⏴" and "⏵" to adjust the initial number "000" to "123"; then press "SET", it will automatically refresh to "000", that is, all values are restored to their original state. For all the following function settings, after each setting, press "SET" for more than 1 second, or no operation for 10 seconds will automatically exit the setting. Please scan the code (right figure) to download and view the specific operation steps