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DDS3366M-9-W1 系列单相多回路多功能电能表

**DDS3366M-9-W1 Series Single-phase Multi-loop
Multi-function Energy Meter**

使用说明书

Instructions

**广东雅达电子股份有限公司
Guangdong Yada Electronics Co.,Ltd.**

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1. 概述 Introduction

1.1 用途和适用范围 Application & range

DDS3366M-9-W1 系列单相多回路多功能电能表系列产品博采国际上众家之长，结合本公司在我国多功能电能表行业多年的设计开发及大量的现场运行经验，采用现代先进微电子技术、计算机技术、电测量技术及高精度计量芯片，数据通信技术以及先进的制造工艺研制而成，是本公司符合国家电网公司 1 级三相智能电能表技术规范的一代电能计量装置。我们对该型号表进行了大量的可靠性冗余设计。各项技术指标符合《GB/T 17215.323—2008》、《GB/T 17215.321—2008》、《JJG 596—2012》等国家标准以及行业标准。



DDS3366M-9-W1 Series Single phase Multi-function electric energy meter products are the new Multi-function intelligent energy meters which based on our many years expertise in power monitors of intelligent design and development and a large number of operating experience. It has the advantage with High accuracy, good stability, reasonable layout, advanced technology, practical, strong function, easy to operate and other characteristics. It can be accurately and quickly to measure all kinds of electrical parameters. Various technical standard comply with " GB/T 17215.323—2008", " GB/T 17215.321—2008", " JJG 596—2012" and other national standards and industry standards.

1.2 该电能表具有如下主要功能 The power meter has the following main functions

◇ 单相 9 回路测量，计量各回路有功电能、无功电能；

Single phase 9 loop measurement, measuring each loop active/reactive power energy;

◇ 正向有功、反向有功电能计量及保存；

Positive and reverse active energy measurement and preservation;

3. 主要技术参数 Main technical index (以产品面板参数为准 Subject to the products' panel parameters)

准确度等级 Accuracy: 有功 active power 1 级 class

参比电压 Rated voltage: 220V

功率消耗 Power consumption: 每相电压回路 Each voltage circuit: $\leq 1.5W$ 、2VA

电流测量范围 Measuring range of current:

20(100)A 配 SCT30L 互感器 20(100)A match SCT30L

50(250)A 配 SCT30L 互感器 50(250)A match SCT30L

可按用户要求定制 Customized

参比频率 Rated frequency: 50Hz

辅助电源 Power supply (范围内可选 The scope of the optional) :

①DC20~60V; ②AC40~265V or DC40~330V

参比温度 Reference temperature: $23^{\circ}C \pm 2^{\circ}C$; 参比湿度 Reference humidity: 40%~60%RH

工作温度 Working temperature: $-10^{\circ}C \sim 50^{\circ}C$; 运输及储存温度 Temperature for transport & storage: $-40^{\circ}C \sim 70^{\circ}C$

相对湿度 Relative humidity: $\leq 85\%RH$

海拔 Altitude: 低于 Less than 4000m

起动电流 Start-up current: 电流为 Current is 0.004Ib

潜动: 电压回路加额定电压的 115%, 电流线路无电流, 仪表测试输出不产生多于一个脉冲。Shunt running: When the voltage circuit is 115% of the rated and no current, the meter should be not pulse output.

脉冲常数 Pulse constants: 请参见产品标牌 Refer to the product's label

外形尺寸 Dimension: $76.5 \pm 0.5mm \times 72 \pm 0.5mm \times 63.5 \pm 0.5mm$ (L×W×T)

主机重量 Weight: 约 About 0.2kg

4. 通讯接口 Communication port

本仪表配置有一个 RS485 通讯接口。通讯波特率为 1200bps、2400bps、4800bps、9600bps、19200bps 可设。通过接口，可与 PC 机完成编程参数设置和抄读数据。

This meter is with one RS485 communication port. The baud rate is 1200bps, 2400bps, 4800bps, 9600bps and 19200bps(settable). It can finish the setting of programmable parameters and reading data by communication port.

出厂默认波特率为 2400bps。通讯协议符合 Modbus-RTU。

The default baud rate is 2400bps. This communication protocol complies with Modbus-RTU.

默认第一回路地址为 01，可使用单地址或多地址通讯读数据。

The first loop address is 01, single address or multi-address communication data can be used.

5. 显示操作 Display operating

按向“▲”或“▼”键可显示电压、频率、电流、功率、功率因数、电能等参数，按“SET”键进入编程页面。

Press ▲”or“▼” to display voltage, frequency, current, power, power factor, energy etc., press “SET” to enter the programming page.



显示数据向上翻页或数值加 1。Display data page up or incremented by 1

显示数据向下翻页或光标左移。Display data page down or cursor left

进入编程页面，密码 3366。Enter into the programming page, password is 3366

回路指示显示符 Circuit indicator display:

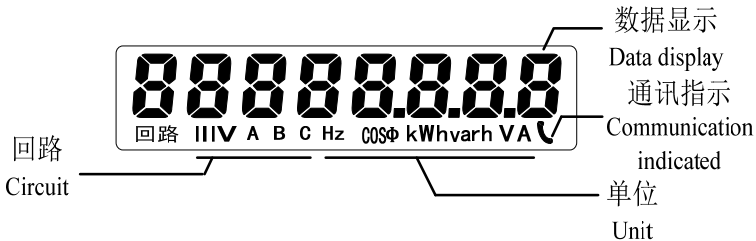








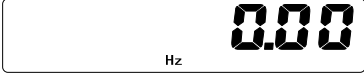



图 1 LCD 显示界面参考图

Picture 1 Reference diagram for LCD display

按键定义说明 Key definition description:

键 key	名称 name	功能 Features
▲	上翻键 Up button	向上移动菜单、返回上一级菜单或键入数值时作为递增的功能。Moves up the menu, returns to the previous menu, or enters values as an incremental function.
▼	下翻键 Down button	向下移动菜单、返回下一级菜单或键入数值时作为移位的功能。Function as a shift when moving the menu down, returning to the next menu, or typing a value.
🔒	编程/SET 键 Programming/SET button	进入系统参数设置,修改确认。Enter system parameter settings, modify the confirmation.

轮循/按键显示画面 Rotary/key display:





序号 No.	显示界面 Display interface	说明 Instructions
1		第 1 回路电压 The 1 loop voltage
2		第 1 回路电流 The 1 loop current
3		第 1 回路有功功率 The 1 loop active power
4		第 1 回路无功功率 The 1 loop reactive power
5		第 1 回路视在功率 The 1 loop apparent power
6		第 1 回路功率因数 The 1 loop power factor
7		第 1 回路频率 The 1 loop frequency
8		第 1 回路有功组合电量 The 1 loop Active combination power
9		第 1 回路无功组合 1 电量 The 1 loop reactive power combination 1 power
10		第 1 回路无功组合 2 电量 The 1 loop reactive power combination 2 power

可通过按键设置, 选择查看 1~9 回路参数, 方法如下 You can select to view the 1~9 loop parameters by pressing the key setting. The method is as follows:

按“SET”键, 进入功能选择界面, 选择“- CH SET -”再次按“SET”键, 通过“▲”键和“▼”键设置需要查看的回路数, 按“SET”键进入进行查看回路各项参数。

Press “SET” key to enter function selection interface, select “- CH SET -” again press “SET” key, set the number of loops to be viewed through “▲” key and “▼” key, press “SET” key to enter to view Loop parameters.

功能界面显示 Function interface display:

序号 No.	显示界面 Display interface	说明 Instructions
1		设置查看某回路数据 Settings to view a loop data
2		查看回路数 View the number of loops (可选择 1~9 回路 Select 1~9 loop)
3		返回上一级菜单 Return to previous menu
4		返回主界面 Back to Home page

按“SET”键，进入功能选择界面，选择“PSd inPUt -”再次按“SET”键，通过“▲”键和“▼”输入密码”3366”，按“SET”键进入进行参数设置界面。

Press “SET” key to enter function selection interface, select “PSd inPUt -” and press “SET” key again, enter password “3366” with “▲” key and “▼”, press “SET” key to enter parameter setting interface.

序号 No.	显示界面 Display interface	说明 Instructions
1		设置参数密码输入界面 Set parameter password input interface
2		输入密码 3366，进入参数设置界面 Enter the password 3366 to enter the parameter setting interface

系统参数设置菜单结构 System parameter setting menu structure:

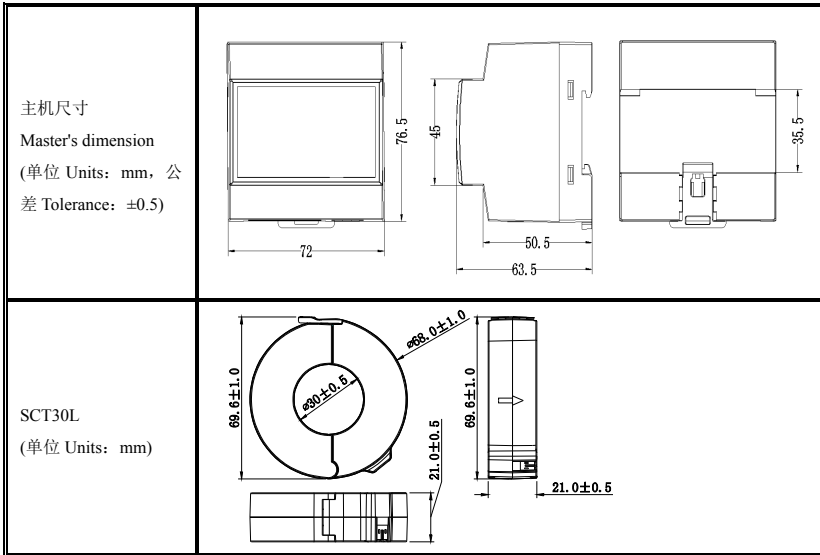
	一级菜单 Level 1 menu	二级菜单 Level 2 menu	三级菜单 Level 3 menu	四级菜单 Level 4 menu	
系统参数 设定 System parameter setting	-CH SEL-	---01---			
	P5d 336b 输入默认密码： 3366 进入修改参 数菜单。 Enter the default password: 3366 enter the modify parameter menu.	-Ad SEL-	L 0000001 H 0000000		
		-Pt SEL-	---01---	0000001	
		-Ct SEL-	---01---	0000001	
		-nAdSEL-	nAdr 01		
		-bd SEL-	02400 E	(波特率 2400, 偶校验 Baud rate 2400, even parity)	
		-bd SEL-	02400 O	(波特率 2400, 奇校验 Baud rate 2400, odd parity)	
		-bd SEL-	02400 N	(波特率 2400, 无校验 Baud rate 2400, no parity)	
		-rtCSEL-	t 180830	(系统时间 system time)	
		-rtCSEL-	d 120831	(系统日期 System date)	
		-rEtUrN-			

系统参数设置中液晶显示字符含义 LCD display character meaning in system parameter setting:

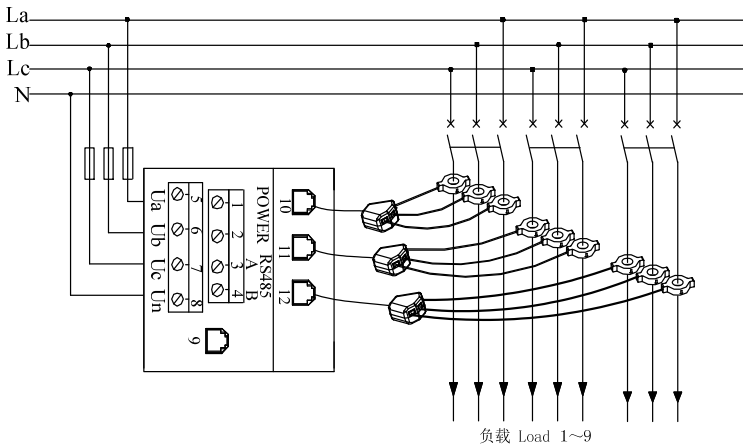
序号 No.	LCD 字符 LCD characters	含义 Meaning	序号 No.	LCD 字符 LCD characters	含义 Meaning
1	P5d 33bb	仪表密码 3366 Instrument password 3366	9	-rEtWrn-	退出 drop out
2	-Ad SEt-	设备地址 Device address	10	--bAcE--	返回上一级 Back to previous
3	-PE SEt-	电压变比 Voltage transformation ratio	11	000001	变比数字 Change ratio number
4	-CE SEt-	电流变比 Current ratio	12	L 000001	设备地址低 6 位 Device address lower 6
5	-rAdSEt-	Modbus 地址 Modbus address	13	H 000000	设备地址高 6 位 Device address high 6
6	-bd SEt-	波特率 Baud rate	14	---01---	回路数字 Loop number
7	-rEtSEt-	系统时钟 System clock	15	t 180830	系统时间 system time
8	-CH SEt-	回路选择 Loop selection	16	d 120831	系统日期 System date

6. 外形尺寸及接线图 Dimension & connection diagram

6.1 外形尺寸 Dimension

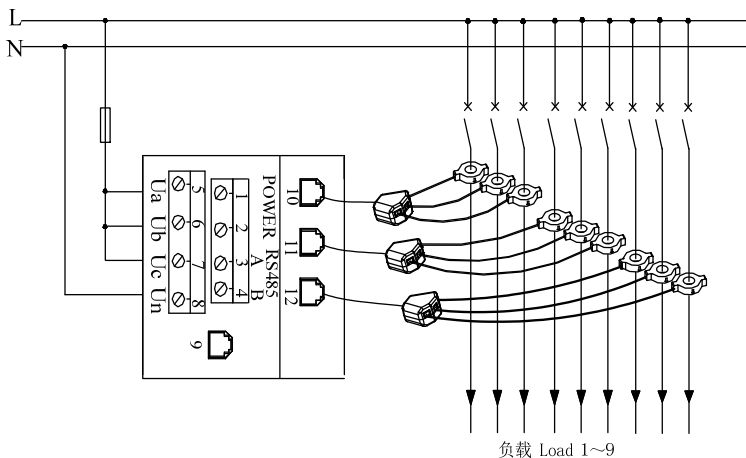


6.2 接线图 Connection diagram (对应测量回路数以实际购买的产品为准 The corresponding measuring circuit of the actual purchase of products shall prevail)



三相系统电压接法 (互感器以实物为准)

Three-phase system voltage connection (The transformer shall be in kind)



单系统电压接法（互感器以实物为准）

Single system voltage connection (The transformer shall be in kind)

注意：电压电流必须相对应，互感器箭头方向要与负载方向一致。

Note: Each voltage and current should be corresponding to each other, and the direction of arrow of transformer.

接线端子定义 Connection terminal definition

1、2	工作电源 Power supply
3、4	RS485
5	La 相电压 Phase a voltage
6	Lb 相电压 Phase b voltage
7	Lc 相电压 Phase c voltage
8	N 零线 Neutral
9	脉冲输出通道 Pulse output interface
10、11、12	电流互感器接口 CT port

电流互感器接口定义 CT port definition

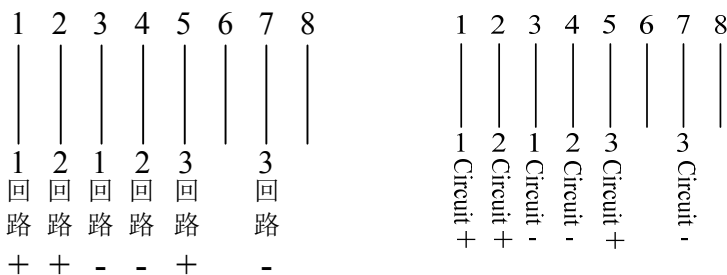
端口号 Port	10		
标识符 Symbol	Ia	Ib	Ic
定义 Definition	1 路 Loop 1	2 路 Loop 2	3 路 Loop 3

端口号 Port	11		
标识符 Symbol	Ia	Ib	Ic
定义 Definition	4路 Loop 4	5路 Loop 5	6路 Loop 6

端口号 Port	12		
标识符 Symbol	Ia	Ib	Ic
定义 Definition	7路 Loop 7	8路 Loop 8	9路 Loop 9

脉冲输出通道接线 Pulse output channel connection

脉冲接口 8 芯线由左往右排序 the order of pulse interface 8 core lines is from left to right



仪表实际为三个 3 相回路（9 个分相回路），三个分相回路共用一个脉冲输出。

The meter is actually three 3-phase loop (9 phase loop), and the three phase circuits share one pulse output.

7. 储运注意事项 Transport storage

- 产品在运输与拆封时不应受剧烈冲击，并根据国家标准 GB/T13384-2008《机电产品包装通用技术条件》的规定运输贮存。

The products should not be subject to server impact during transportation or Taking down the seal, and should in accordance with GB/T13384-2008"General Instrument packaging technology," to transport and store.

- 本产品属电子器件，故搬运、取放时应尽量避免重物撞击和磕碰。

This product belongs to the electronic device, should be avoided heavy impact and collision.

- 保存环境温度应为-40℃~70℃，相对湿度不超过 85%且在空气中不含腐蚀性的有害物质。

The ambient temperature should be -40℃~70℃for storage , relative humidity no more than 85%, and the air should not contain harmful substances which will cause corrosion.

- 电能表应在原包装的条件下放在仓库保存，叠放高度不超过 5 箱。

The meter should lay under the conditions of the package, a high degree of no more than 5 stacked layers.

8. 产品质保及服务 Warranty and Service of Product

电表自出厂日起 18 个月内，如用户发现不符合上述特性及技术要求，且在由有关电力计量部门证明又完全按照本说明书中所规定的要求操作的情况下，我公司负责免费修理。

The meter within 18 months after delivery, if the users do the operating complete following up the instruction, found the meters are not to conform to the above characteristics and technical requirements, and got the proved of relevant electric measurement departments. Our company will be responsible for free repair.

注：以上图片仅供参考，产品以实物为准。

Note: The above pictures are for reference only, the products are subject to the actual product.



广东雅达电子股份有限公司

Guangdong Yada Electronics Co.,Ltd.

地址：广东省河源市高埔岗雅达工业园

Address: Yada industry park, Gaopugang, Heyuan city,

Guangdong Province.

国内业务 Domestic market: 86-762-3493871 3493872 3493873

国外业务 International market: 86-762-3496222

技术支持 Technical support: 86-762-3493926 3493989

传 真 Fax: 86-762-3493912 3493830

邮 编 Zip code: 517000

http: //www.yada.com.cn

E-mail: market@yada.com.cn

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