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Warning! Installation by person with electrotechnical expertise only.
警告! 只能由具有电气技术专业知识的人安装。



QR Code for online User Manual.
扫二维码获取在线用户手册。

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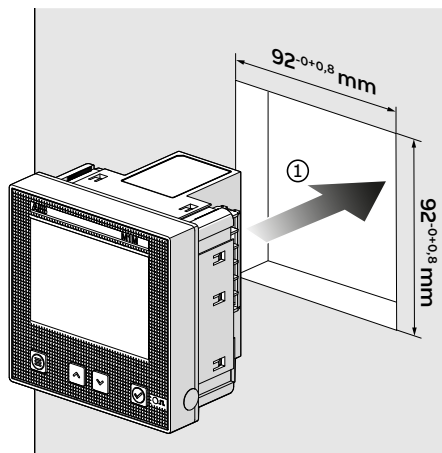
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1. Packaging Content

- Power Meter M1M 20
- Installation Manual
- Calibration Certificate
- Installation accessories (removable terminals, fixing clips)

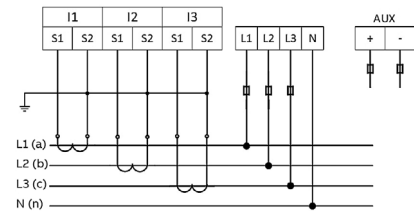
2. Installation

2.1. Assembly

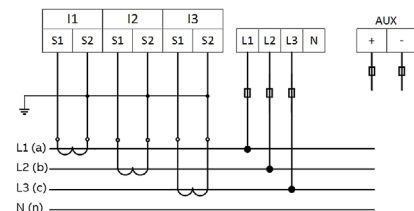


3. Wiring Diagram

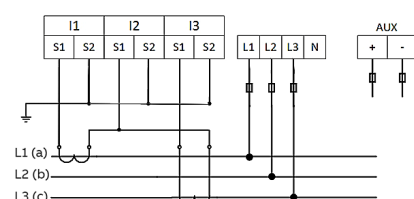
3-Phase 4-wire network with 3 CTs (3N3T)
三相四线 3个电流互感器 (3N3T)



3-Phase 3-wire network with 3CTs (3 3T)
三相三线 3个电流互感器 (3 3T)



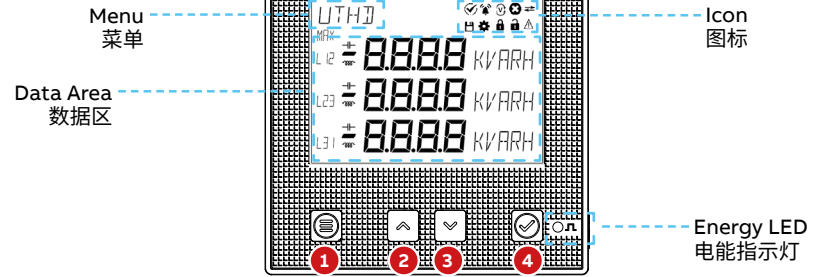
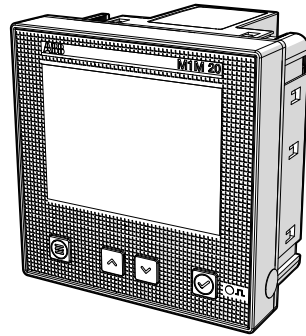
3-phase 3-wire network with 2CTs (3 2T)
三相三线 2个电流互感器 (3 2T)



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4. Operating instructions

4.操作说明



M1M 20

Power Meter

INSTALLATION MANUAL

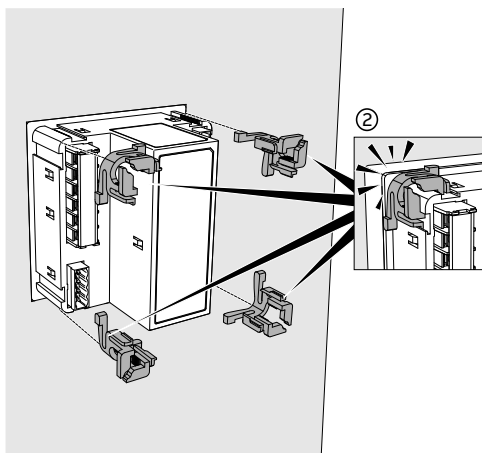
电力智能监控仪表 安装说明书

1. 包装清单

- 电力智能监控仪表 M1M 20
- 安装手册
- 校准证书
- 安装配件(可拆卸端子, 固定夹)

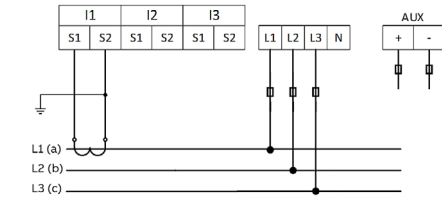
2. 设备安装

2.1. 安装

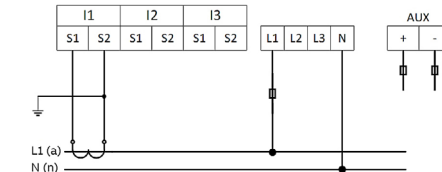


3. 接线

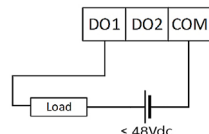
3-Phase 3-wire network with 1CT (3 1T)
三相三线 1个电流互感器 (3 1T)



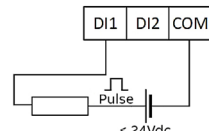
1-Phase 2-wire network with 1CT (1N1T)
单相两线 1个电流互感器 (1N1T)



Digital outputs
数字输出



Digital inputs (M1M 20 I/O only)
数字输入 (仅M1M 20 I/O)



Button	Functions
1 Menu	Access the menu and navigation
2 Up	Navigate in the measurements or change a configuration value
3 Down	
4 Enter	Confirm an action and navigation

4.1. Data entry procedure

1. Press "Up" to increase the numerical characters from 0 to 9, until the required character is obtained.
2. Press "Down" to move the cursor in order to add a second digit to the number
3. Repeat the operations described in steps 1 and 2 until the desired number is obtained, press "Enter" to confirm the number

5. First Commissioning

To start to use the M1M it is mandatory to configure the basic setting (password, type of network, CT ratio and VT ratio).

5.1. Setting password

The password is composed by 4 numerical characters. In order to select each numerical character, it is necessary to use button 'Up' or 'Down' and confirm the password with 'Enter'.

Default password is 0000. At first use, the password shall be defined. In order to disable the password, please enter 0000.

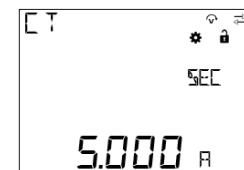
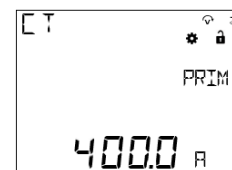
5.2. Type of network

Select the type of network among the following ones

Type	Description
3N3T	Three-phase, four-wire and three-transformer
3 3T	Three-phase, three-wire and three-transformer
3 2T	Three-phase, three-wire and two-transformer
3 1T	Three-phase, three-wire and one-transformer
1N1T	Single-phase, two-wire and one-transformer

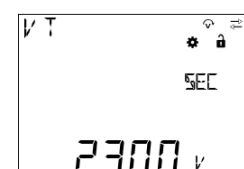
5.3. Current Transformer ratio

1. Enter the current transformer primary and select the magnitude, and confirm it by pressing 'Enter'.
2. Select the current transformer secondary, and confirm it by pressing 'Enter'.



5.4. Voltage Transformer ratio

1. Enter the voltage transformer primary and select the magnitude, and confirm it by pressing 'Enter'.
2. Enter the voltage transformer secondary, and confirm it by pressing 'Enter'.



4.1. 数据输入程序

1. 按“向上”键增加数字字符, 从0到9, 直到获得所需字符。
2. 按“向下”键移动光标, 以便在数字中增加第二个数字。
3. 重复步骤1和步骤2所述的操作, 直到获得所需的数字, 按“确认”键确认数字。

5. 初始配置

初次使用M1M需要进行初始基本配置(密码、网络类型, 电流互感器变比, 电压互感器变比)。

5.1. 密码设置

密码是由四位数字组成的, 通过向上键或向下键修改数字, 使用“确认”键确定密码。

默认密码是0000。若初始密码设置为0000, 则密码功能将被禁用。

5.2. 网络类型设置

请从下列连接类型中进行选择设置

类型	描述
3N3T	三相四线 3个互感器
3 3T	三相三线3个互感器
3 2T	三相三线2个互感器
3 1T	三相三线1个互感器
1N1T	单相两线1个互感器

5.3. 电流互感器设置

1. 输入电流互感器初级值并选择量级后, 按“确认”键确认。
2. 选择电流互感器次级值, 按“确认”键确认。

5.4. 电压互感器设置

1. 输入电压互感器初级值并选择量级后, 按“确认”键确认;
2. 输入电压互感器次级值, 按“确认”键确认。

