


## Contact us

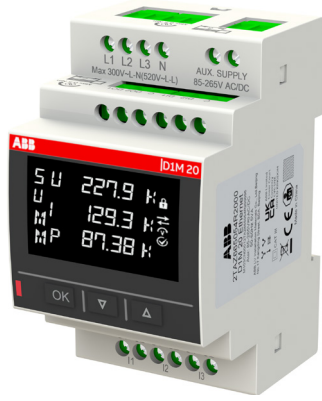
ABB LV Installation Materials Co., Ltd.  
Beijing Electrification Business Area  
No. 17 Kangding Street, Beijing  
Economic-Technology Development  
Area, 100176  
<https://new.abb.com/low-voltage>

 Warning! Installation by person with electrotechnical expertise only.

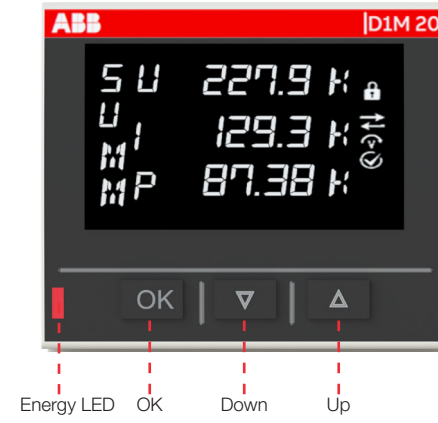


QR Code for online manuals.

9AKK108468A5639 20-10-2023

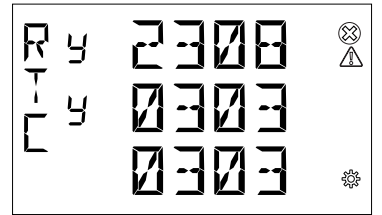


## 3. Operating instructions



### 4.2. Setting Date/Time

Set the current date and current time  
(Format: Year/Month/Day/Hour/Minute/Second).



### 4.3. Type of network

Select the type of network among the following ones.

Type	Description
3N3T	3-phase 4-wire network with 3CTs
3N1T	3-phase 4-wire network with 1CT
3 3 T	3-phase 3-wire network with 3CTs
3 2 T	3-phase 3-wire network with 2CTs
3 1 T	3-phase 3-wire network with 1CT
2N2T	2-phase 3-wire network with 2CTs
1N1T	1-phase 2-wire network with 1CT

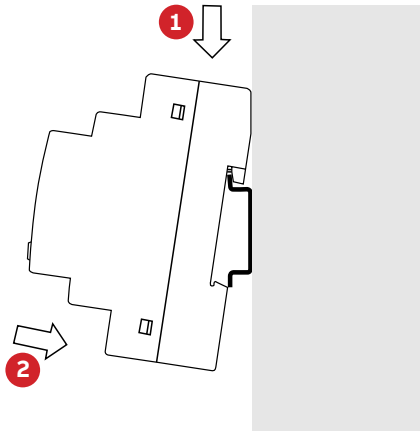
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## 1. Packaging Content

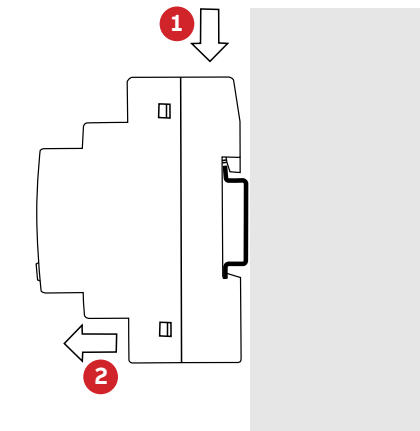
- Power Meter D1M 20
- Installation Manual
- Calibration Certificate

## 2. Mounting

### 2.1. Assembly

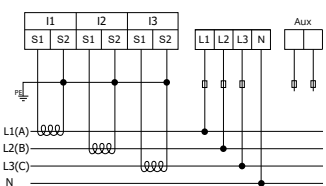


### 2.2. Disassembly

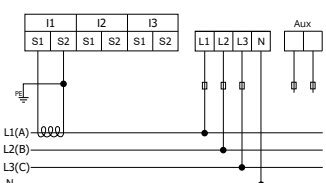


## 2.3. Wiring Diagram

### 3-Phase 4-wire network with 3CTs (3N3T)



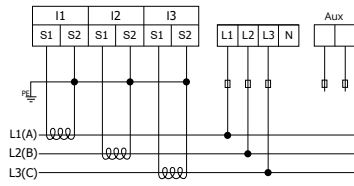
### 3-Phase 4-wire network with 1CT (3N1T)



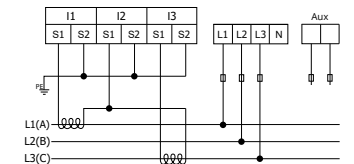
### Power Meter

## INSTALLATION MANUAL D1M 20

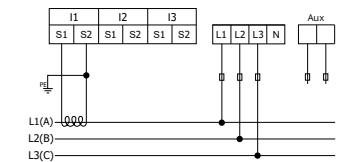
### 3-Phase 3-wire network with 3CTs (3 3T)



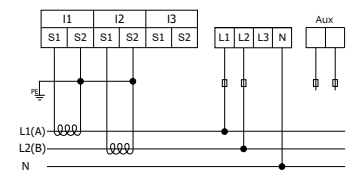
### 3-Phase 3-wire network with 2CTs (3 2T)



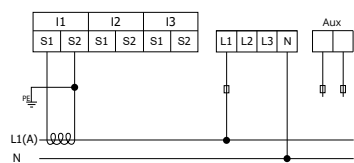
### 3-Phase 3-wire network with 1CT (3 1T)



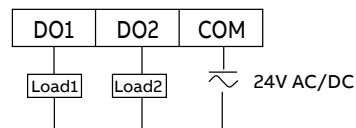
### 2-Phase 3-wire network with 2CTs (2N2T)



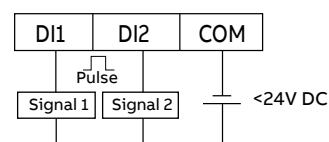
### 1-Phase 2-wire network with 1CT (1N1T)



### Digital output



### Digital input



Button	Press	Function
OK	Long	Go to the main menu
	Short	Confirm the numerical value or option input, go to the next level menu
Down	Long	Return to the previous level menu
	Short	Page down, numerical value amplifies 10 times
Up	Long	Go to the Home page
	Short	Page up, numerical value select 0~9 and decimal point

### 3.1. Data entry procedure

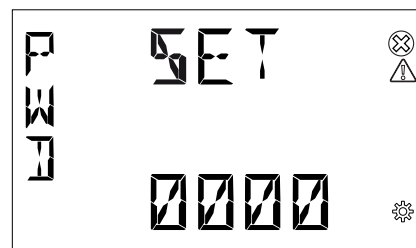
- Short press the 'Up' to set the first (on the far left) numerical character in a loop from '0' to '9' and '0.0', until the required character is obtained.
- Short press the 'Down' to confirm the first numerical character and move this character to the left or confirm the first decimal point.
- Repeat the step 1 and 2 to set the second and other numerical characters, it's the same method as the first numerical character.
- It will add a character '0' on the right side when short press the Down Arrow button to move current numerical characters to the left.

## 4. First Commissioning


To start to use the Power Meter D1M 20, it is mandatory to configure the basic setting:

A wizard will guide the user for the configurations (password, type of network, CT ratio and VT ratio).

### 4.1. Setting password

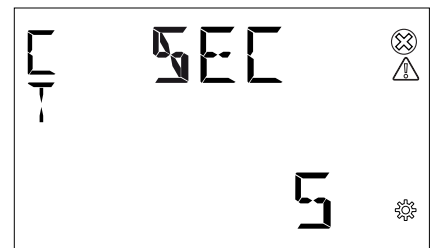
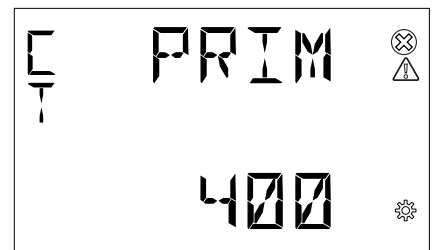


The password is composed by 4 numerical characters. In order to select each numerical character, it is necessary to use button "Up" or "Down" and confirm the password with "OK".

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

### 4.4. Current Transformer Ratio

- Enter the current transformer primary and select the magnitude, and then confirm it by pressing 'OK'.
- Select the current transformer secondary and confirm it by pressing 'OK'.



### 4.5. Voltage transformer ratio

- Enter the voltage transformer primary and select the magnitude, and then confirm it by pressing 'OK'.
- Enter the voltage transformer secondary and confirm it by pressing 'OK'.

