EM300A-1AY Intelligent Network Power Meter Instruction Manual

### Setting Mode

**Long press F4 in measuring mold, then enter into setting mode, which require to input password first, the default password is "0000". After successfully entering, short press F2+(function) or F3(-function) to select the items needed to set. Long press F4(function) function to enter into the sub-menu. In the third menu, please select the specific item, or input the specific value. Long press F4(validation function) to confirm, or long press F1(exit function) to give up, which will return to the previous menu automatically.**

In the third menu which requires to input the specific value, please short press F4(shift function) to select the position needed to revise. After this position is tokenking, short press F2+(function) or F3(-function) to revise the value, then long press F4(validation function) to confirm, or long press F1(exit function) to give up. If the input value is not within the prescribed limit of meter, the meter will display “ERRn” error message after confirming, which requires to re-input.

Long press F1(exit function) in the first menu, which will require to confirm the setting or not. Long press F4(validation function) to preserve, or long press F1(exit function) to give up preserving, which means the selected and inputted values will be lost, then return to measuring mode automatically. The setting value of meter will not lost during power down.

1. **Setting example**
   - CT1, CT2, PT1, PT2 settings have coefficient setting.
   - The rated value of primary= set value × coefficient.
   - Set the primary rated voltage PT1 to 35KV as figure 2.1: Please revise the set value to 3500 and set the coefficient to 10 according to formula.
   - Figure 2.1 PT1 setting operation example

   ![Figure 2.1 PT1 setting operation example](image1.png)

   Set the secondary rated voltage PT2 to 100V as figure 2.2: Please revise the set value to 100 and set the coefficient to 1 according to formula.

   ![Figure 2.2 PT2 setting operation example](image2.png)

   Below is the operation for revising the original correspondence address 254 to 251:

   ![Figure 2.3 PT2 setting operation example](image3.png)

   **Warning**: The input voltage should not be higher than the rated voltage of meter (400V or 1000V). If not, we should use PT, PT strictly prohibits short circuit, which will produce large current! We need to place 1A fuse in the voltage input end.

2. If there are other meters connected with the used CT, we need to apply serial connection mode. Before removing the current input connection of meter, we must finally cut off the primary circuit of CT or shortly the secondary circuit of CT. The CT strictly prohibits open circuit, which will cause high voltage. We suggest to use connector bar, without connecting CT directly, which is easy to remove.

3. Please make sure that the phase sequence and direction of voltage and current are corresponding.

**Chart 3.4.1 Setting item instruction**

![Figure 3.4.1 Setting item instruction](image4.png)

**Figure 2.3 setting operation example(input)**

Below is the operation for revising the connection mode from three phase four wire to three phase three wire.

**Figure 2.4 setting operation example(selection)**

**Figure 2.5 structure chart of setting menu**

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