



V, A, F Meter  
**DPM96 Series**  
Digital Panel Meter



# Operating Manual

Programming Guide &  
Connection Summary

Document No:  
BGX501-383-R02

## **Important:**

Please take note of warning and caution icons presented in this manual as follows:



This icon warns the user to take special precautions whilst performing an operation.



This symbol indicates DPM96 series meters comply with 2kV insulation level.

## **Features:**

- Star/Delta Programmable
- Universal Auxiliary Supply
  - 80-300VAC,
  - 24V DC (optional)
- PT/CT ratio programmable including CT Secondary
- Clearance and Creepage according to UL 508 Standard
- Voltage input (415V P-P) and Current Input (0-5A)

## **Technical Specifications**

- **Electrical Specification:**

Aux. power Supply: 80-300VAC, 24V DC (optional)

Range: 0-415 V (P-P), 0-5A

- **Mechanical Specifications:**

Enclosure Material: Poly Carbonate

Bezel Size: 96 \* 96 mm

Panel cut out size: 92\*92mm

Weight :< 650 Grams

Connectors: Strip type connectors

Mounting: Clamp connectors

- **Environmental Specifications:**

Operating temp.: 0-60 Degree C

Storage Temp.: 25-70 degree C

Relative Humidity: 0-95 % Non condensing



Temp. Coefficient: 0.01 %

Measurement category: III

Pollution Degree: II

Class of Accuracy: 1.0

## Keys Functions:

Key	Function in Set Mode	Function in Run Mode
CLR up 	To edit the value/system type up ward in edit mode and scroll through parameters	No Action
CLR down 	To edit the value/system type down ward in edit mode and scroll through parameters	To scroll up the pages to look at different parameters

## Configuration of Meter

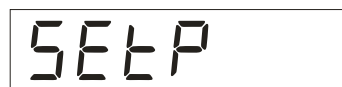
- **To Enter in the Set UP Mode:**

- Press CLR up & down keys together to enter in the Setup mode. Following screen would be shown with first digit blinking.



- By pressing CLR up key the blinking digit can be changed and by pressing CLR up key the blinking digit can be shifted. Default password is 1000. The password can be accepted by pressing CLR up key five times. The indication of *ELE* ensures that the password has been accepted.





Following options would be available to configure after entering in setup mode.

- a. Wiring Configuration Settings
- b. PT Ratio Settings
- c. CT Ratio Settings



*If entered password is other than the default one, the current settings for the meter can't be changed.*

**a) To change the wiring configuration (In 3P Meters)**

By pressing CLR up key meter enters into wiring configuration mode with ELE (for element) showing on screen. Pressing CLR up key twice Star would be showing blinking on the screen.

ELE

After pressing CLR down button one can select the wiring configurations.

STAR

delta

The required configuration can be accepted by pressing CLR up key.

**b) To Enter into PT Ratio Configuration mode(In the case of Voltmeter)**

After the selection of wiring configuration the meters enters into the PT Ratio Configuration Mode. When press CLR down key the display will show as:-

PT.PT

While press CLR up key the display will show the primary value as "415.0" V.

415.0

The PT primary value can be changed by pressing the CLR up key to shift the blinking digit position & CLR down key to

change the value. Any value can be set for PT primary up to 9999.

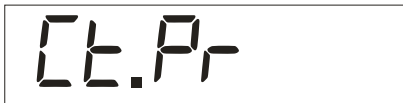


By pressing CLR down key, the PT secondary value can be changed by using above procedure CLR up key to shift the blinking LED position & CLR down key to change the value of digits similarly.

### c) Enters into CT ratio Configuration (In the case of Ammeters)

By pressing CLR down Key the meter goes to CT ratio configuration mode.

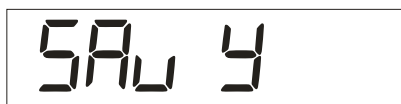
CT primary & secondary values can be changed by using same procedure as used for PT primary & secondary values in above section. When Presses CLR down the display will show as:



By using CLR up & CLR down keys the CT primary value can be changed.

- **Saving the changes in SET UP mode:**

After configuring all the CT/PT Ratios and wiring configuration, press CLR down key than the display will indicate as 5A<sub>U</sub> 4 with blinking value of 4.



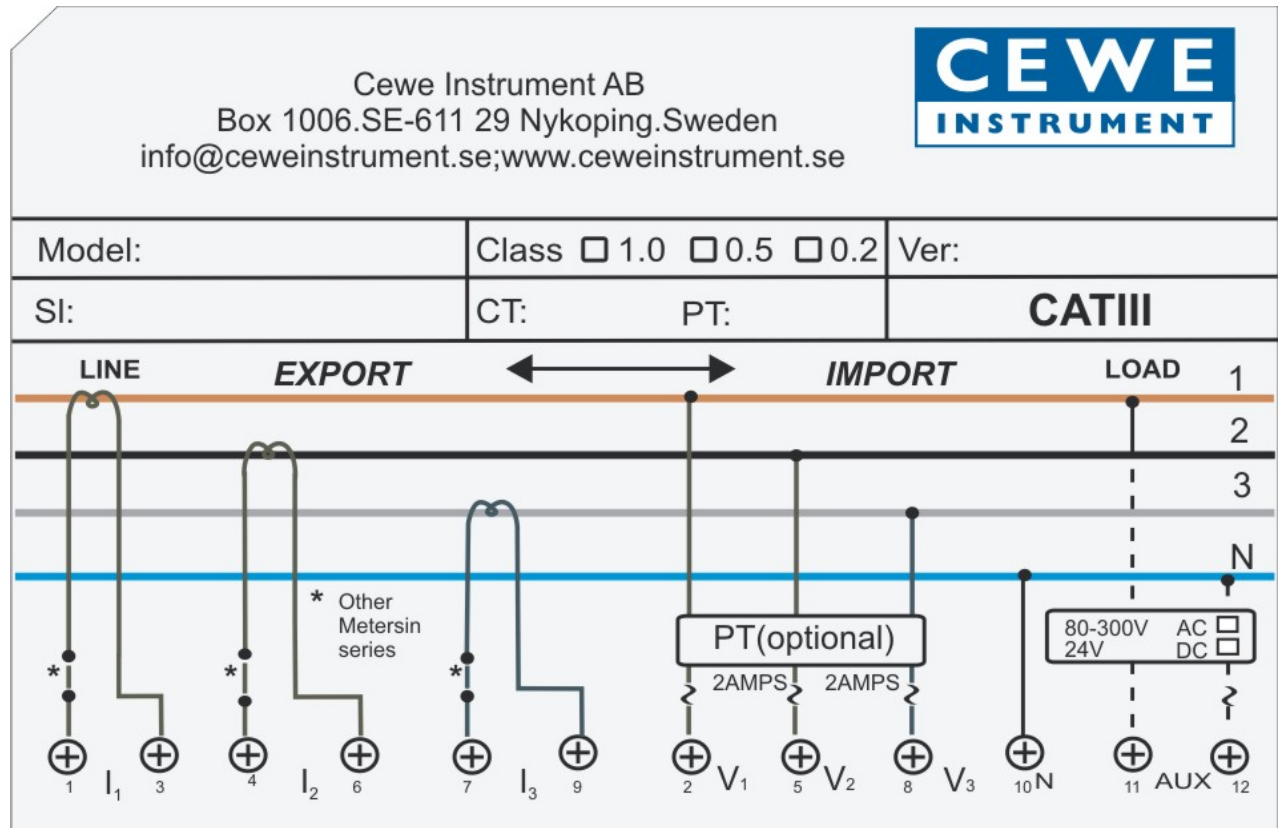
### Function of LED's

LED status	Meaning
'Kilo' ON	Kilo

## Remarks:

- “MIN” LED in DC Ammeters and Voltmeters is for denoting “Minus” sign in the case of incorrect connections.

## Meters Connection Diagram:





*If the equipment is not used in the manner specified in the manual, the protection provided by the equipment may be impaired.*

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