CEWE
INSTRUMENT

PF, POWER Meter
DPM96 Series
Digital Panel Meter

Operating Manual
Programming Guide & Connection Summary

Document No:
BGX501-384-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
  - o 80-300VAC
  - o 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
Set	To change to last set value and to set the changed value	No Action
CLR up	To edit the value/system type up ward in edit mode and scroll through parameters	To scroll up the pages to look at different parameters
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:**
a. Press Set & CLR up/down keys together to enter in the Setup mode. Following screen would be shown with first digit blinking.

$$\boxed{0000}$$

b. By pressing CLR up key the blinking digit can be changed and by pressing SET key the blinking digit can be shifted. Default password is 1000. The password can be accepted by pressing SET key five times. The

indication of `SEtP` ensures that the password has been accepted.

| `1000` | | `SEtP` |

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

By pressing CLR down key meter enters into wiring configuration mode with ELE (for element) blinking on screen. Pressing SET key user can select either Star or Delta mode according to the configuration.

| `ELE` |

After pressing Set button one can select the wiring configurations.

| `StAr` | | `dLtA` |

The required configuration can be accepted by pressing SET key.

b) To Enter into PT Ratio Configuration mode:

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.Pr` |

While press SET KEY the display will show the primary value as "415.0" V.

```
4 15.0
```

The PT primary value can be changed by pressing the SET KEY to shift the blinking digit position & CLR up key increase the value & CLR down to decrease the value of the digit. Any value can be set for PT primary up to 9999.

```
3250.
```

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

c) Enters into CT ratio Configuration:

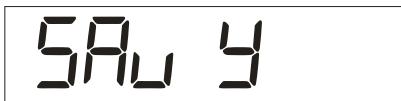Now by pressing CLR down Key the meter goes to CT ratio configuration mode.

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

```
Ct.Pr
```
```
Ct.SE
```

By using SET, CLR up & CLR down keys the CT primary value can be changed.
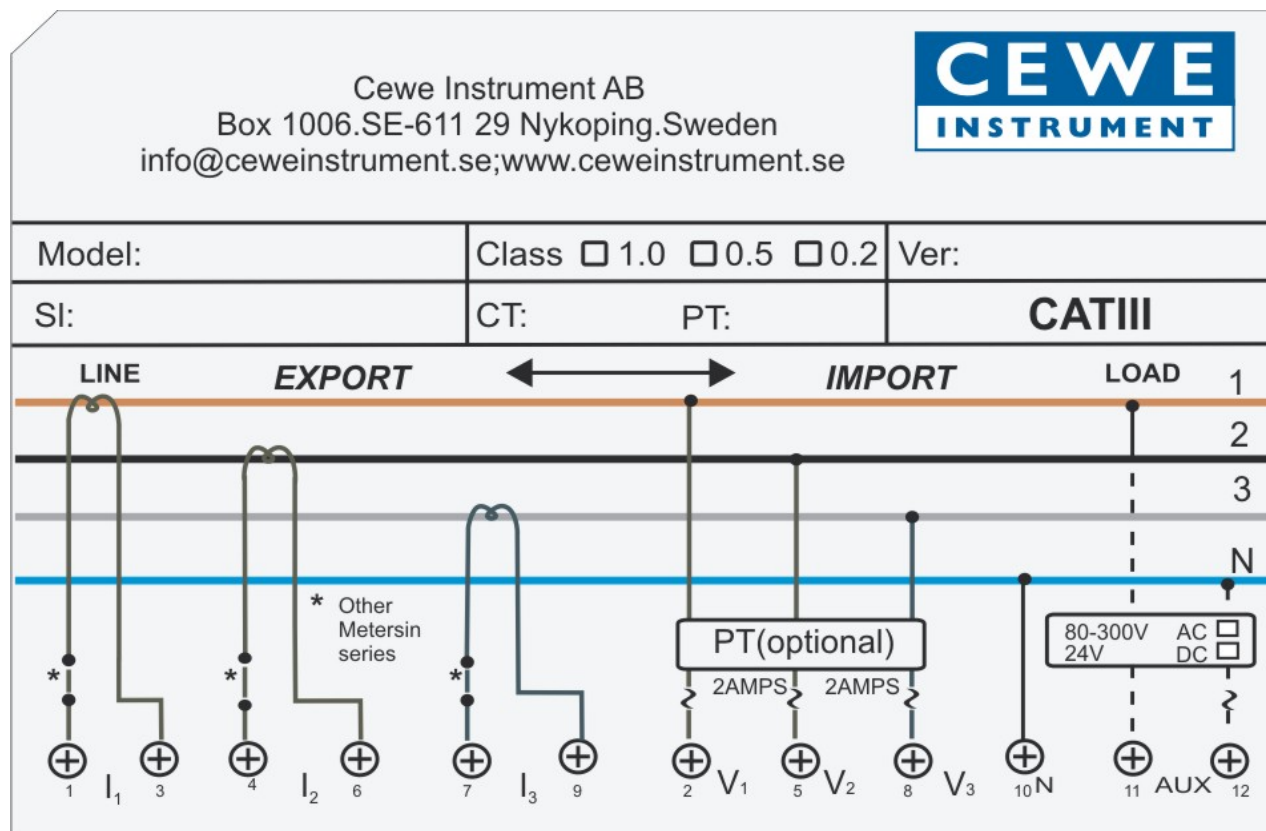
• Saving the changes in SET UP mode:

After configuring all the CT/PT Ratios and wiring configuration, press CLR down key than the display will indicate as 5Au Y with blinking value of Y.

```
5Au Y
```

Function of LED's

LED status	Meaning
'Kilo' ON	Kilo
'Mega' ON	Mega
'Kilo' and 'Mega' ON	Giga
'Kilo' and 'Mega' OFF	Direct Reading

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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