

AMMETER

EPM-4D/4C

EPM-4D (Ammeter with Demand): EPM-4D is designed to measure RMS value of AC current which flows from the line and saving the instant and average demands. The current transformer ratio can be set between 5/5A and 10000/5A by the buttons on the panel.

EPM-4C(Ammeter with Setpoint): EPM-4C measures the RMS value of AC current which flows from the line. If the measured AC current is over the high setpoint or it is under the low setpoint, output relay is switched on at the end of adjusted time delay. Also, it includes all functions of EPM-4D.

* **Important Notice:** The secondary value of current transformer must be limited at 5A.

Demand Time (dEt): Device records measured demand and maximum demand values. Demand is the average current value measured in demand time. Maximum demand is the maximum average current value measured in demand time. Maximum demand value remains stored, even if the power supply is off and demand value becomes "0" (zero).

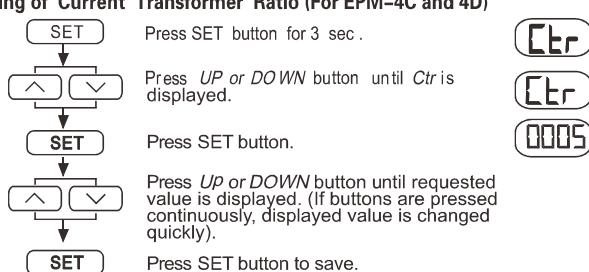
Setpoint (SP H ve SP L): When the AC current which flows through the device is over the high setpoint value or it is under the low setpoint value, the output relay is switched on in order to generate an error signal at the end of programmed delay time. If the AC current value returns within preset limits, before the end of the delay time, the relay resets itself and no tripping occurs.

Latch Function (LatC): Latch function is used to select the output relay operation mode. Either "OFF" or "On" position may be selected.

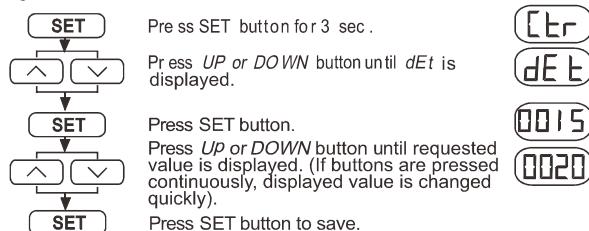
- At position "OFF": If the current value returns to preset limits, output relay is switched off.
- At position "ON": Even if the current value returns to preset limits, output relay remains switched on and switches off only by pressing the "Set" button.

Instant Tripping (trP): If the AC current value is over the 1.5 times of setting value or it is under the 0.5 times of setting value, the output relay is switched on without any delay time. This function is user-selectable.

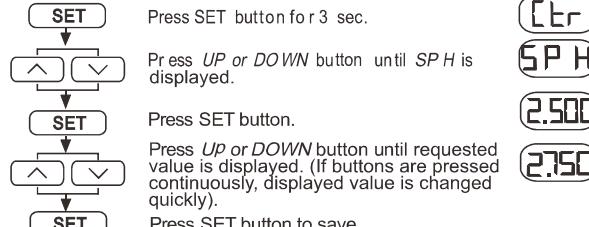
Setting of Current Transformer Ratio (For EPM-4C and 4D)



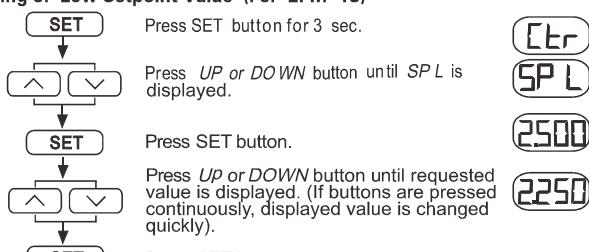
Setting of Demand Time (For EPM-4C and 4D)



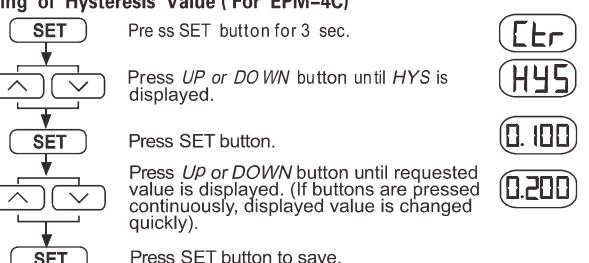
Setting of High Setpoint Value (For EPM-4C)



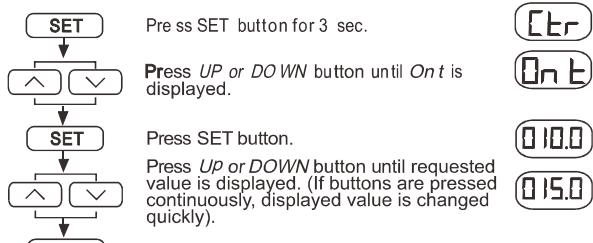
Setting of Low Setpoint Value (For EPM-4C)



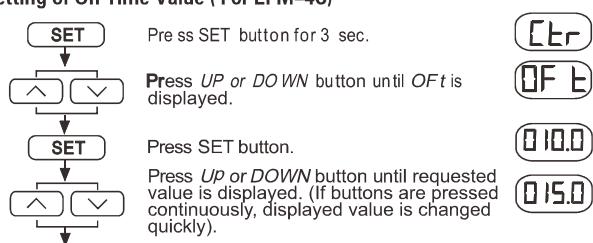
Setting of Hysteresis Value (For EPM-4C)



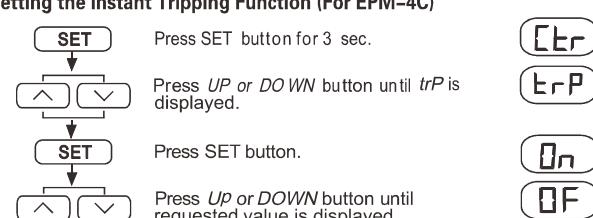
Setting of On Time Value (For EPM-4C)



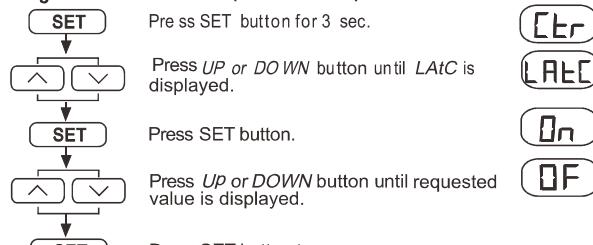
Setting of Off Time Value (For EPM-4C)



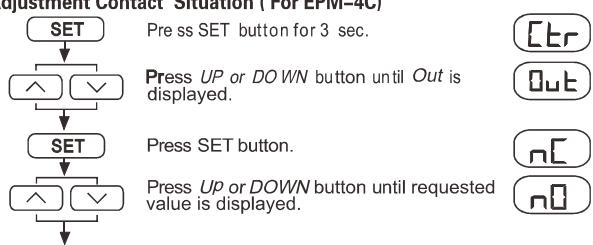
Setting the Instant Tripping Function (For EPM-4C)



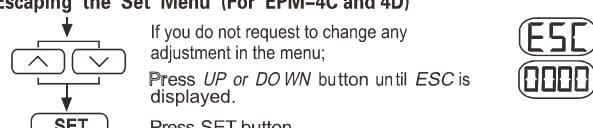
Setting of Latch Function (For EPM-4 C)



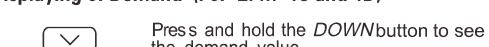
Adjustment Contact Situation (For EPM-4C)



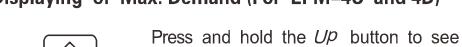
Escaping the Set Menu (For EPM-4C and 4D)



Displaying of Demand (For EPM-4C and 4D)



Displaying of Max. Demand (For EPM-4C and 4D)



Deleting the Demand Values (For EPM-4C and 4D)



AMMETER

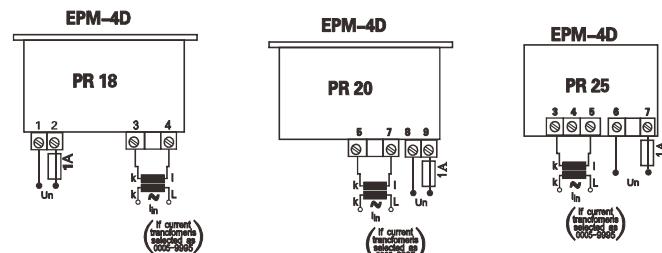
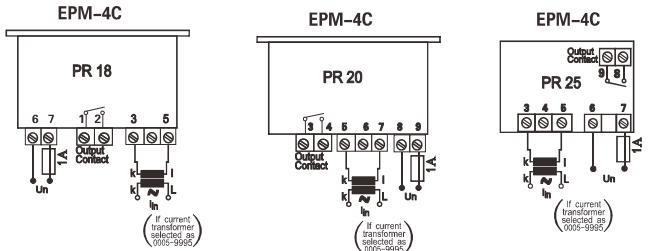
EPM-4D/EPM-4C

PRECAUTIONS FOR INSTALLATION AND SAFE USE

Failure to follow below instructions will result in death or serious injury.

- Disconnect all power before working on equipment.
- When the device is connected to the network, do not remove the front panel.
- Do not try to clean the device with solvent or the like, Only clean the device with a dried cloth.
- Verify correct terminal connections when wiring.
- Electrical equipment should be serviced only by your competent seller. No responsibility is assured by the manufacturer or any of its subsidiaries for any consequences arising out of the use of this material.
- Only for rack panel mounting.

Connection Diagrams



Warning :

- A switch or circuit breaker must be connected between the network and the auxiliary supply input of device.
- Connected switch or circuit breaker must be in close proximity to the device.
- Connected switch or circuit breaker must be marked as the disconnecting device for the equipment.
- The type of the used fuse must be FF type and the current of the used fuse must be 1A.
- No need of a ventilator in the installation area
- Practical user manual must be put on the panel.

Technical Data

Operating Voltage (U_n),*

Operating Range (ΔU)

Operating Frequency (f)

Accuracy

Measuring Input (I_{in})

: AC220V $\pm 10\%$

: 45 - 65Hz

: 0. 5% [(10% - 100%) full scale]

: 0.05-5.5A

Current Transformer Ratio (Ct)

: 5...9995 / 5 A

Power Consumption (P_{cons})

: < 4 VA

Burden

: < 1 VA

Output Contact

: 5A, 250V, 1250VA (Resistive)

(for EPM-4C)

Ins. Tripping

: > 1, 5 \times SPH or < 0.5 \times SPL

(for EPM-4C)

Hysteresis

: 0-0.5 \times Full scale (for EPM-4C)

Delay Times

: 0.0-999.9 sec, (for EPM-4C)

Demand Time (Average)

: 1-60 min.

Enclosure

: Non-flammable

Equipment Protection

: Double Insulation (□)

Measuring Category III

: -5°C; +50 °C

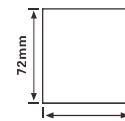
Installations

: Flush mounting with rear terminals

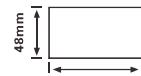
★ Please check the device label for proper value.

★ Different supply voltages are adjustable upon request.

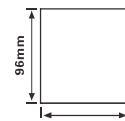
Dimensions



TYPE PR 18 (72x72)

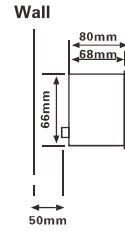


TYPE PR 20 (48x96)

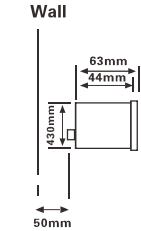


TYPE PR 25 (96x96)

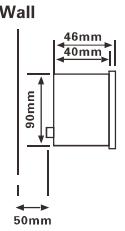
The area Measurements on The Control Panel



TYPE PR 18 (72x72)

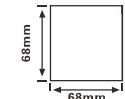


TYPE PR 20 (48x96)

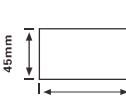


TYPE PR 25 (96x96)

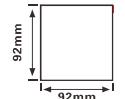
Control Panel Cut Out



TYPE PR 18 (72x72)



TYPE PR 20 (48x96)



TYPE PR 25 (96x96)

Factory Settings:

Ctr = 0005

SPL = 0.250

OFt = 010.0

trP = OF

dEt = 0015

HYS = 0.100

LAtC = OF

SPH = 4.000

On t = 010.0

Out = nO

