



Ohio Semitronics, Inc.
The Leader in power measurement

OFC- PANEL METER QUICK SETUP GUIDE



OFC- series meter is a fully programmable 4 digit LED meter with three basic input models:

OPTIONS FOR INPUT SCALE:

- 0-10Vdc
- 4-20mAdc
- 0-5Aac (includes external current transformer with 0.35" window).

INSTRUMENT POWER OPTIONS:

- 120Vac.
- 24Vdc.

RELAY OPTIONS:

- Two Solid state alarm relays each programmable over the input scale.
- No relays.

Standard features:

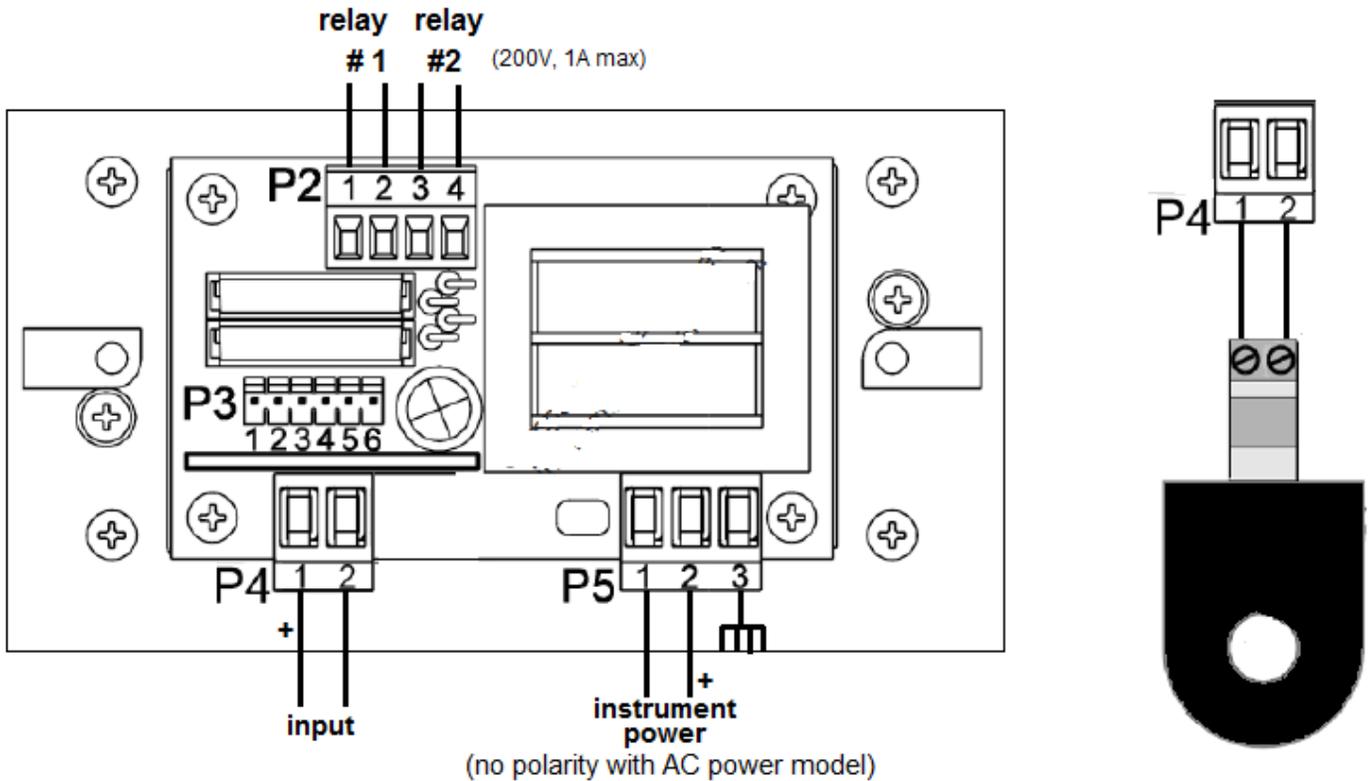
- 5 front panel push-buttons for programming.
- Display range -1999 to +9999
- Selectable decimal point location.
- Selectable update rate 1 to 16 times per second.
- Tare function.
- Under and over-range input display indicator.
- Two LED indicators for Lo & Hi setpoints (standard with or without relays).

AVAILABLE MODEL NUMBERS:

OFC101-1004-20mA _{dc} input, 120V _{ac} power	(Add 2 relays..... OFC111-100)
OFC108-1004-20mA _{dc} input, 24V _{dc} power	(Add 2 relays..... OFC118-100)
OFC101-1200-10V _{dc} input, 120V _{ac} power	(Add 2 relays..... OFC111-120)
OFC108-1200-10V _{dc} input, 24V _{dc} power	(Add 2 relays..... OFC118-120)
OFC101-9250-5A _{ac} input, 120V _{ac} power	(Add 2 relays..... OFC111-925)
OFC108-9250-5A _{ac} input, 24V _{dc} power	(Add 2 relays..... OFC118-925)

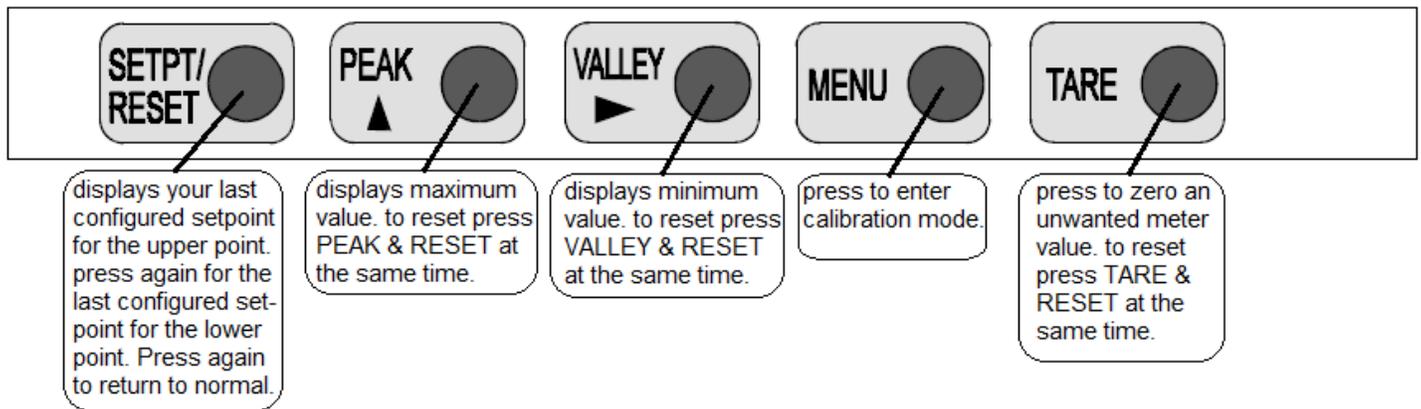
BACKVIEW:

-925 models includes external current transformer with ratio 5A_{ac}:1V_{ac} shown below at right.



P3 pin header is a secondary function that duplicates the front panel control buttons.
 1 = COMMON 2 = TARE 3 = SETPOINT/RESET 4 = PEAK 5 = VALLEY 6 = MENU
 Short or jumper temporarily function (pin 2 through 6) to pin 1.

FRONT PANEL CONTROL BUTTONS:



CALIBRATION:

Typically there are two inputs needed to calibrate: Zero input and Full Scale input. Negative values are allowed, or a negative and a positive. The decimal point is set up first, then the meter averaging time, then setpoint 1 and setpoint 2 “conditions”. The setpoints are a standard part of the meters programming whether you have the optional relays or not. A red LED will indicate both of the HI/LO points on the display. LED = ON in closed setpoint condition.

- 1) Apply instrument power.
 - 2) Apply the first input (typically zero input).
 - 3) Press **MENU** (d. appears on display).
 - 4) Press **PEAK** to shift the decimal point to the desired position. Press **VALLEY** to lock it in.
 - 5) Press **PEAK** to shift between 16, 8, 4, 2, 1 (averaging time 1, 2, 4, 8 or 16 updates/second).
 - 6) Press **VALLEY** for S1 (setpoint 1) and **PEAK** to choose no or nc (normally open/normally closed).
 - 7) Apply input # 1 (typically zero) and Press **VALLEY** for display CAL 1. To proceed **VALLEY** again. The left-most digit will flash. Use **PEAK** to obtain the digit value needed and **VALLEY** to advance to the next digit to the right. Once all the digits are programmed, press **SETPT/RESET** and **TARE**.
 - 8) CAL 2 appears on display. Press **VALLEY** to display the flashing left-most digit. Apply input # 2 (Full Scale) and set flashing digit using **PEAK** to adjust the flashing digit and use **VALLEY** to advance to the right. Once all digits are set, press **SETPT/RESET** and **TARE**.
- Calibration complete:** (display = d.) Now exit the menu, press **VALLEY** (display = Av.) press **MENU**. Display will show full input operation.

NOTE: To set the HI and LO setpoint levels Press **SETPT/RESET** and use **PEAK** and **VALLEY** buttons. Lastly, press the **SEPT/RESET** button to initialize both settings.

© Ohio Semitronics, Inc. 4242 Reynolds Dr. Hilliard, Ohio USA 43026 Tel: 614-777-1005

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