Datasheet
Stock No. 1785370
RS PRO Power metering socket. 3" LCD Measures V

Instruction Manual
Power Meter Socket

Power Meter is a monitoring and testing instrument which determines the power consumption of a connected appliance and cost of the electricity consumed.

Resetting

If an abnormal display appears or the buttons produce no response, the instrument must be reset. To do this, press the RESET button.

Display Mode

Entire LCD can be displayed for about 1 minute and then it automatically gets into Model. To transfer from one mode to the other, press the FUCTION button.

Mode 1:Time/Watt/Cost Display   Display duration(how long) this device connect to power source.

1. LCD on first line shows 0:00 with first two figures mean minutes (2 figures will occur while occur at 10 min) and rest shows seconds. After 60mins, it displays 0:00 again with first two numbers means hour(2 figures will occur at 10hours) and the rest shows minutes. The rest can be done in the same manner which means after 24 hours, it will re-calculate.
2. LCD on second line displays current power which ranges in 0.0W~9999W.
3. LCD on third line displays the current electricity costs which ranges in 0.0~9999cost. It will keep on 0.00cost before setting rate without other figures.

Mode 2: Time/Cumulative KW Display   Display duration(how long) this device connect to power source.

1. LCD on first line shows 0:00 with first two figures mean minutes (2 figures will occur while occur at 10 min) and rest shows seconds. After 60mins, it displays 0:00 again with first two numbers means hour(2 figures will occur at 10hours) and the rest shows minutes. The rest can be done in the same manner which means after 24 hours, it will re-calculate.
2. LCD on second line displays current cumulative electrical quantity which ranges in 0.000KWH~9999KWH without other figures.
3. LCD on third line displays "DAY"—"1"will be showed on numerical part (the other three figures will be showed at carry) which means it has cumulated electrical quantity for 24 hours(one day). The rest can be done in the same manner until the maximal cumulative time of 9999 days.

Mode 3: Time/Voltage/Frequency Display

1. LCD on first line displays the same as Mode 1.
2. LCD on second line displays current voltage supply (v) which ranges in 0.0V~9999V.
3. LCD on third line displays current frequency (HZ) which ranges in 0.0HZ~9999HZ without other figures.

Mode 4: Time/Current/Power Factor Display

1. LCD on first line displays the same as Mode 1 operation.
2. LCD on second line displays load current which ranges in 0.0000A~9999A.
3. LCD on third line displays current power factor which ranges in 0.00PF~1.00PF without other figures.

Mode 5: Time/Minimum Power Display

1. LCD on first line displays the same as Mode 1.
2. LCD on second line displays the minimum power which ranges in 0.0W~9999W.
3. LCD on third line displays character of "Lo" without figures.

Mode 6: Time/Maximal Power Display

1. LCD on first line displays the same as Mode 1.
2. LCD on second line displays the maximal power which ranges which ranges in 0.0W~9999W.
3. LCD on third line display character of "Hi" without other figures.

Model 7: Time/Price Display

1. LCD on first line displays the same as Model 1.
2. LCD on third line displays the cost which ranges in 0.00COST/KWH~99.99COST/KWH without other figures.

Overload Display: When the power socket connects the load over 3680W, LCD on second line displays the "OVERLOAD" with booming noise to warn the users. (selectable choice)

Supplemental information:

1: Except "OVERLOAD" interface, LCD on first line display time in repetition within 24hours.

2: LCD on first line, second line or third line described in this instruction take section according to two black lines on LCD screen. Here it added for clarified purpose.

3: Mode 7 will directly occur while press down button "cost".

4: "UP" & "DOWN" are in no function under un-setting mode.

Setting Mode
Electricity price setting

After keeping COST button pressed lasting more than 3 seconds(LCD on third line display system defaults price, eg 0.00COST/KWH), the rendered content begins moving up and down which means that the device has entered the setting mode. Then press FUNCTION button to change selection and press UP/DOWN to set what you want. (On pressing once, the figure after decimal point will increase or decrease accordingly. On pressing and hold-on, figures after decimal will increase or decrease slowly in 2 seconds while figures change quickly when hold-on time exceeds 2 seconds. When hold –on time reaches 10 seconds or more, the figures after decimal point will stop while the figures before decimal point begin to increasing.) After that, press FUNCTION for switching, then press "UP" and "DOWN" button again to set value which ranges in 0.00COST/KWH~99.99COST/KWH. After setting all above, press COST to return to Mode 7 or it will automatically return to Mode 7 without any pressing after setting with data storage.

Technical specification

Operating voltage:　230V, 50HZ

Operating current:　max 16A

Wide voltage range: 230V---250V

Timing display range:0 second---9999 days.

Wattage display (watts): 0W---9999W

Voltage Display range: 0V---9999V

Current display (amps): 0.000A—16.000A

Frequency display: 0Hz---9999Hz

Minimum Wattage display range: 0.0W---9999W

Maximum Wattage display range: 0.0W---9999W

Price display range: 0.00 COST/KWH---99.99COST/KWH

Total KWh and cost display: 0.000KWH---9999KWH, 0.00COST ---9999COST