Datasheet

RS PRO LED Battery Meter

Stock number: 180-9260 and 180-9262

EN

Function description:

1. LED's Scan from "F" to "E" on power-up. (LED test mode)

2. The meter will automatically display the current battery power when connected to the battery.

3. When the battery voltage falls below the currently displayed LED bar for >155s, the highest LED segment switches off.
The LED bar display function is that as the voltage level drops the LED segments switch off one by one, 155 seconds after the voltage falls below the threshold for the currently illuminated highest LED segment.

4. While charging, when the battery voltage increases above the voltage threshold of current LED bar for >200s the next LED segment illuminates.
The charging status is shown from the first bar to the current bar.
The LED bar display function is that as the voltage level increases the
LED segments illuminate one by one, 200 seconds after the voltage increases above the threshold for the currently illuminated highest LED segment.

5. When disconnected then reconnected to battery, the meter will retest the current battery power and display the related voltage LED bar.
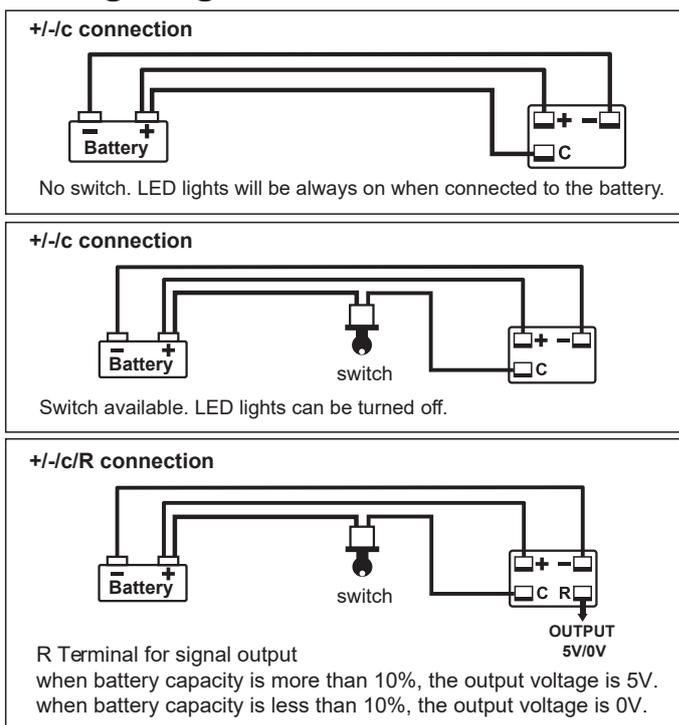
Specifications:

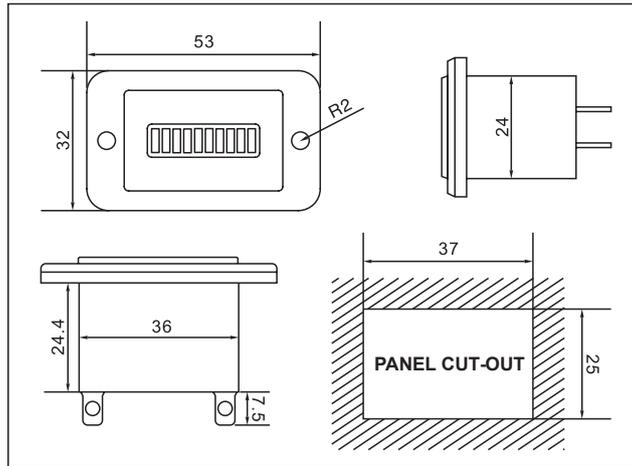| Capacity	1 Red 2 Yellow 7 Green color LED for indicator
Resolution	10% per LED segment
Operating Voltage	12/24V, 36V, 48V, 72V
Operating current	20 mA nominal
Storage and Operating	-20℃ to + 85℃ Temperature
Tolerance	+/- 0.5%
Polarity	Positive/Negative/C (R option)
Case Style	Front panel mount

Remarks:

1. Ensure the correct voltage is applied to the meter. Failure to apply the correct voltage will cause the indicator to malfunction or fail.

2. Ensure that terminal C is connected to positive pole of battery either directly or through a suitable key-switch as illustrated. If not the indicator will scan from full to empty then shut off.

3. Ensure the voltage matches the indicator. If not, red, yellow and green LED's will illuminate. If the applied voltage exceeds the meters maximum tolerated voltage the meter will fail
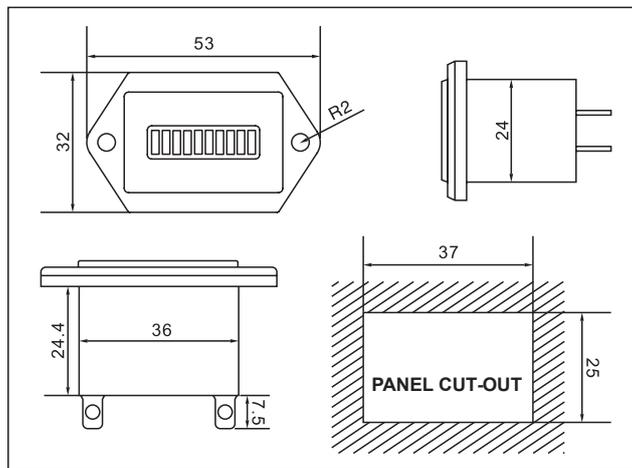
Wiring Diagram:

+/-/c connection

No switch. LED lights will be always on when connected to the battery.

+/-/c connection

Switch available. LED lights can be turned off.

+/-/c/R connection

OUTPUT 5V/0V

R Terminal for signal output
when battery capacity is more than 10%, the output voltage is 5V.
when battery capacity is less than 10%, the output voltage is 0V.

Dimensions

RS180-9262

RS180-9260

Working voltage of every LED bar

Voltage	≤1	2	3	4	5	6	7	8	9	10
12V	10.38	10.59	10.8	11.01	11.22	11.43	11.64	11.85	12.3	≥12.3
24V	20.76	21.18	21.6	22.02	22.44	22.86	23.28	23.7	24.6	≥24.6
36V	31.14	31.77	32.4	33.03	33.66	34.29	34.92	35.55	36.9	≥36.9
48V	41.52	42.36	43.2	44.04	44.88	45.72	46.56	47.4	49.2	≥49.2
72V	62.28	63.54	64.8	66.06	67.32	68.58	69.84	71.1	73.8	≥73.8
Display Mode	1#—2# fiash Alternately (frequency: 1Hz)	Only 2# flash (frequency: 1Hz)	Only 3# lit	Only 4# lit	Only 5# lit	Only 6# lit	Only 7# lit	Only 8# lit	Only 9# lit	Only 10# lit
Display color of LED	RedY	ellowY	ellowG	reen	Green	Green	Green	Green	Green	Green
Delay	Delay 155s / bar									