



Wykamol Diagnostic Power Unit

Plug pack connection details

Plug the power lead into the DC socket. Connect the wall wires to the pluggable connector as follows:

- Anode (+) YELLOW
- Cathode (-) BLUE

Controller unit operation and messages

1. On power-up, the unit displays the firmware checksum followed by a brief start-up message. The unit then enters **SET-UP** mode for approximately 20 seconds. In this mode, the top line displays the present Static Wall Charge (Voltage) (Note: You should expect to see *some* voltage, NOT 0.00V). The bottom line displays the Plug-pack Rectified DC Voltage. Range should be approximately 5 - 6V DC.
2. At the end of **SET-UP** mode, the unit changes to **SOURCE** mode where the top line displays the present source voltage applied to the wall (0.00 - 9.99V). The bottom line displays the present source current applied to the wall (00.0 - 99.9mA).
3. Every minute, the unit switches to **READ-OUT** mode, where the top line displays the last actual static wall charge (Voltage) reading.

(Note: The actual static wall charge (Voltage), is read once every 24 hours in **LIVE-READ** mode. The process takes approximately 8 seconds and the top line displays the static wall charge being measured and the bottom line displays 'LIVE READING NOW' to Indicate it is in progress.

There are a few fault conditions that may be displayed at any time.

- a) Wall source current is too low or break detected. If the current falls below 0.1mA, the message 'OPEN' will be displayed.
- b) Wall source current too high. If the source current exceeds 68.0mA, the message 'HIGH' will be displayed.
- c) Wall source voltage short detected. If the wall source voltage drops below 0.32V, the message 'SHORT' will be displayed.

NOTE: During ANY of the fault conditions, the unit will NOT turn off or enter a failsafe mode. Removing/Restoring AC Power (5 seconds), will restart the unit in **SET-UP** mode.

Specifications

Source Voltage

0.00 - 9.5V, (Maximum Open Circuit) (Read Range 9.0 – 10.0 V).

Source Current

00.0 - 73.0mA, (Maximum Short Circuit).

Input Plug Pack Power Supply

Volts **DC** (Regulated) 4.0 - 9.0V, 200 - 100mA minimum.

Volts **AC** (Un-Regulated) 4V, 200mA minimum.

PLEASE RECORD the following information on the top of the control unit to establish “Benchmark” data.

- the system voltage
- the current wall charge voltage
- the static wall charge voltage

Also record :

- the installation date
- the installation contractor's name and contact phone number