

Procedure:

Connect power supply + to module pin +12V (J1).
Connect power supply GND to module pin GND (J2).
Connect shunt + sense to module pin A+ (J3).
Connect shunt - sense to module pin A- (J4).
Connect power supply + to shunt +.
Connect shunt - power to loads through switches (one switch per load).
Connect loads - to power supply -.
Connect voltmeter + to module pin OA (J5) and voltmeter - to GND.

Apply +V to shunt and module. Turn load switches off (open).
Adjust pot (between sense leads) for 0mV (+/- 1 mV) on voltmeter.
Turn pot CW to lower, CCW to raise.
Turn one load switch on.
Move meter + to shunt + sense.
Move meter - to shunt - sense.
Record measurement (Vin).
Move meter + to module pin OA (J5). Move meter - to power supply GND.
Record measurement (Vout).
 $V_{out} = (V_{in} * 100) \pm 30mV$.
Turn second load switch on and repeat Vin / Vout measurements.

Shift to next section: shunt + sense to module pin B+ (J6),
shunt - sense to module pin B- (J7), meter + to module pin OB (J8)
turn load switches off and repeat test.

Shift to next section: shunt + sense to module pin C+ (J9),
shunt - sense to module pin C- (J10), meter + to module
pin OC (J11) turn load switches off and repeat test.

Test Equipment:

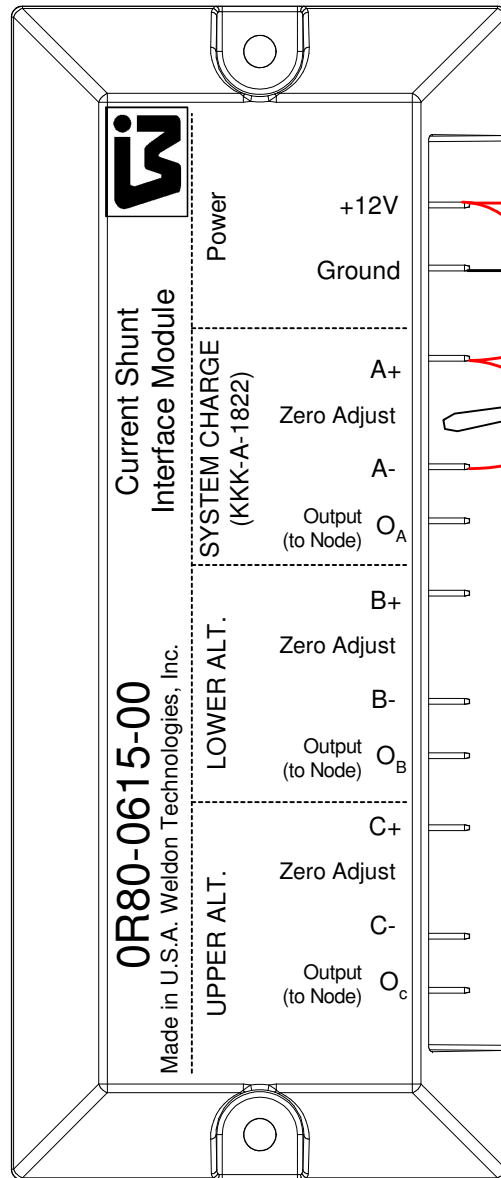
- (1) 10A, 50mV Resistive Shunt.
- (1) 14.4V, 10A DC Power Supply.
- (1) Five Digit Voltmeter. (Fluke 45 or equivalent)
- (2) 50W Resistive (Lamp) Loads.
- (2) Switches.

Test Setup:

See page 2 of this document

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			APPROVALS		DATE		OR80-0615-00 Current Shunt Module Test Procedure			
			DRAWN st		7/10/00					
CHECKED										
MATERIAL		QUAL ENG								
FINISH			MFG ENG		SIZE A PART NO. 0Z30-1091-00 REV. A					
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Battery Power
or
Power Supply
12-14.5v

Jumper the power from
supply to A+ and A-

Adjust the pot to zero out the
output (O) - To read
discharging and charging you
set the output to 2.5v,
To read just charging you
want to set the output to 0v

Note::
The output voltage from a hall effects sensor
must be a minimum of 10volts. This unit is
designed to measure +/- 50mv swings between
the output voltages.

			see page 1 of 2						
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MATERIAL			QUAL ENG						
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