

Model 49100

LonPoint® Demo Kit Release Note

The Push Button I/O Assembly (found in the pocket of the demo case) must be attached to the DB37 connector labeled I/O. This connector provides access to all I/O points on the modules as well as the physical I/O hardware. The Push Button I/O Assembly connects the LonPoint devices to the I/O hardware—so without the Push Button I/O Assembly in place, none of the physical hardware is attached. In the future, other versions of the Push Button I/O Assembly may allow for different I/O devices with this same demo kit.

If the Push Button I/O Assembly button is pushed, the internal capacitor bank circuitry is discharged through a resistor, modeling a perturbation to the system.

The following descriptions of the I/O assume that the Push Button I/O Assembly is in place:

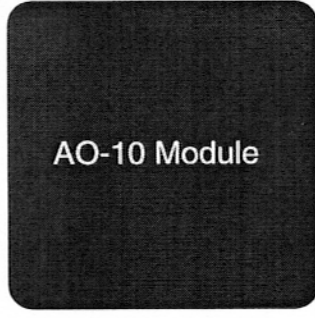
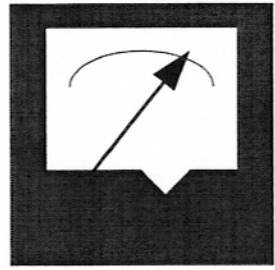
<p style="text-align: center;">AI-10 Module</p> <p>Analog Input #1 measures the resistance across the POT (black knob) which physically provides 0 to 50,000 Ohms. This hardware jumper is set to RES.</p> <p>Analog Input #2 measures the voltage across the internal capacitor bank circuitry. This hardware jumper is set to VOLT.</p>	<p style="text-align: center;">AO-10 Module</p> <p>Analog Output #1 drives a voltage across the Meter, which displays 0 to 10 DC Volts. This hardware jumper is set to 0-10V.</p> <p>Analog Input #2 drives a current into the internal capacitor bank circuitry. The hardware jumper is set to 4-20mA.</p>
<p style="text-align: center;">DI-10 Module</p> <p>Digital Input #1 is connected to Switch 1. Digital Input #2 is connected to Switch 2. Digital Input #3 is connected to Push Button 3. Digital Input #4 is connected to Push Button 4.</p>	<p style="text-align: center;">DO-10 Module</p> <p>Digital Output #1 is connected to LED 1. Digital Output #2 is connected to LED 2. Digital Output #3 is connected to LED 3. Digital Output #4 is connected to LED 4.</p>
<p style="text-align: center;">LonPoint LPR-10 Router Module</p> <p>The yellow connectors are attached to the B (left) and A (right) side of the router. All other modules and one TP/FT-10 Free Topology Terminator are on the A side of the router. There is no other I/O associated with the LPR-10 module.</p> <p>The LPR-10 module does NOT go applicationless when you hold the service pin down for 10 seconds.</p>	<p style="text-align: center;">SCH-10 Schedule Module</p> <p>There is no I/O in the demo kit associated with the SCH-10 module because the SCH-10 application does not support any I/O function blocks.</p>

Note: It is highly recommended that you load new Neuron® applications into the modules when you receive your demo kit. The Neuron application programs are available by installing the LonPoint Plug-in on the LonMaker™ for Windows CD.

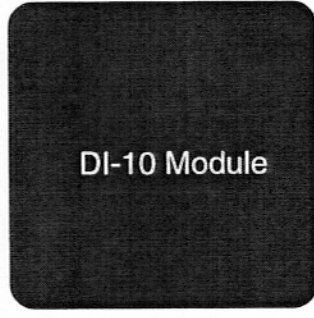
Input 1: 0 - 50Ω



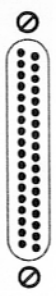
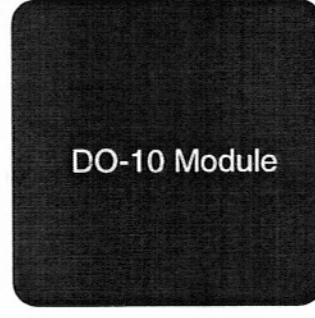
Input 1: 0 - 10VDC



1 2 3 4



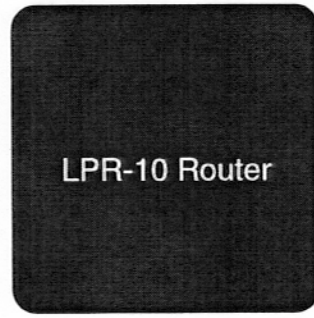
1 2 3 4



Router B

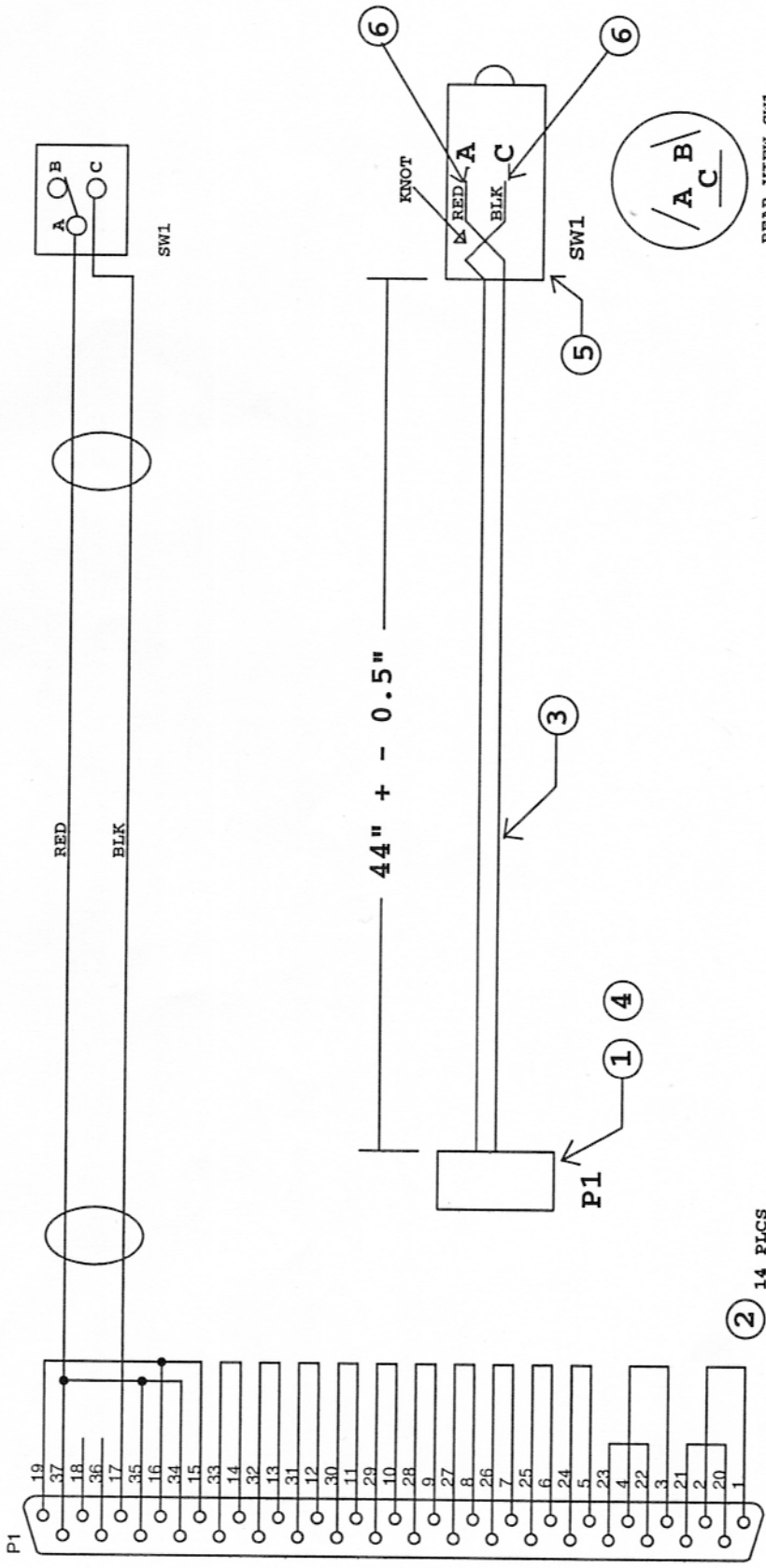


24VDC



Router A





DB37 MALE SOLDERCUP

REAR VIEW SW1

- NOTES**
1. STRIP BACK SHEATH 0.75" BOTH ENDS
 2. INSERT CABLE THROUGH SW1 GROMMET AND TIE KNOT AT SW1 END.
 3. SOLDER RED WIRE TO SW1 TERMINAL "A", APPLY ITEM 6 .25" OVER CONNECTION
 4. SOLDER BLACK WIRE TO SW1 TERMINAL "C", APPLY ITEM 6 .25" OVER CONNECTION
 5. REASSEMBLE SW1, INSTALL SPLIT FERRULES AND SECURE WITH TWO SET SCREWS.
 6. WIRE P1 WITH AWG22 TIN PLATED BUSS WIRE AS SHOWN.
 7. INSTALL ITEM 4 AT P1
 8. RETAIN STRIPPED INSULATION FROM ITEM 3; APPLY AT J1 PIN 16 TO PIN 19 AND J1 PIN 35 TO PIN 37.

ITEM	QUAN.	REF.	ECHELON P/N	DESCRIPTION
1	1	P1	335-0110-01	37 COND DSUB SLDRCUP MALE
2	6"		380-0179-01	AWG24 BUS WIRE
3	46"		380-0184-01	2 COND AWG22 GRAY PVC
4	1	P1	295-0112-01	HOOD DSUB 37 SIZE
5	1	SW1	405-0125-01	PUSH BUTTON SWITCH
6	.5"		390-0113-01	HEAT SHRINK BLK 1/8" DIA

ECHELON

Title
CABLE ASSY. PID SWITCH

Size
A

Document Number
810-0188-01

Rev
B

Date: Friday, July 02, 1999

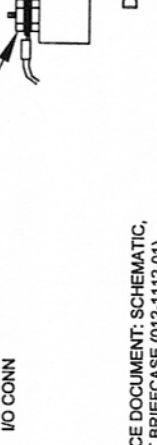
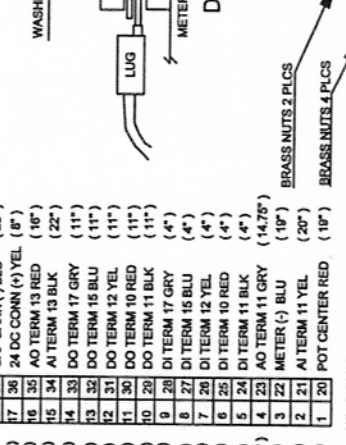
Sheet 1 of 1

REV	ECO	DESCRIPTION	DATE	APPROVED
A	N/A	INITIAL SUBMISSION TO VENDOR		
B	N/A	REMOVED "TINY" FROM NOTE 5, LENGTHEN AO WIRES 10,11 BY 0.75", MOVE ORN AND BRN WIRES AT S1 S2 TO RIGHT TERMINALS	2/5/99	
C	1127	REVISE NOTES BY REPLACING DIGREY PART NUMBERS WITH ECHELON PART NUMBERS. CHANGE POWER JACK TO CENTER POSITIVE.	7/1/99	B. NORONA

9. APPLY 0.5" LENGTH, 1/4" DIA. HEAT SHRINK (390-0101-01) AS SHOWN.
8. INSTALL 13 TIE WRAPS (295-0114-01) TO SECURE TPFT-10 TERMINATOR AND WIRES.
7. LOCATE 7 CABLE TIES (295-0113-01) APPROX. WHERE SHOWN.
6. WIRES TO METER TERMINATE WITH SPADE LUG (275-0117-01) OR EQUIVALENT.
5. ALL WIRE UNLESS OTHERWISE NOTED IS AWG22, BELDEN #9921 OR EQUIVALENT, COLOR AND LENGTH AS SHOWN, J1 WIRES STRIP 1/8" FREE END STRIP 1/4", ALL OTHER WIRES STRIP BACK BOTH ENDS 1/4".
4. OBSERVE WIRE LENGTH AND COLOR WHEN SOLDERING WIRES TO J1.
3. 4x4700 uF CAPS, R1 AND R2 SOLDERED AS SHOWN, COVER WITH HEAT SHRINK: 3" LONG (390-0114-01).
2. APPLY 0.5" LENGTH, 1/8 DIA. HEAT SHRINK (390-0113-01) AS SHOWN.
1. STRIP WIRE AND SOLDER AT LOCATIONS SHOWN.

NOTES

STRIP WIRE AND SOLDER AT LOCATIONS SHOWN.



DETAIL A



DETAIL B

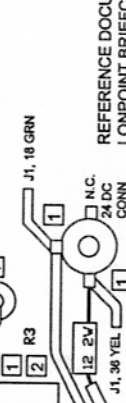
J1

19	CAP BANK (+) BLU	(23")
18	24 DC CONN (+) GRN	(8")
17	R2 FREE END ORN	(25")
16	AO TERM 12 BRN	(16")
15	AI TERM 12 WHT	(22")
14	LED # 4 PUR	(15")
13	LED # 3 GRN	(13")
12	LED # 2 ORN	(13")
11	LED # 1 BRN	(13")
10	LEDS COM WHT	(13")
9	PBSW # 4 PUR	(12")
8	PBSW # 3 GRN	(14")
7	SW # 2 ORN	(14")
6	SW # 1 BRN	(14")
5	SWITCH COM WHT	(12")
4	AO TERM 10 PUR	(14.75")
3	METER (+) GRN	(10")
2	AI TERM 10 ORN	(20")
1	POT RIGHT BRN	(19")

I/O CONN

1	POT CENTER RED	(19")
2	AI TERM 11 YEL	(20")
3	METER (-) BLU	(10")
4	AO TERM 11 GRY	(14.75")
5	DI TERM 11 BLK	(4")
6	DI TERM 10 RED	(4")
7	DI TERM 12 YEL	(4")
8	DI TERM 15 BLU	(4")
9	DI TERM 17 GRY	(4")
10	DI TERM 10 RED	(11")
11	DO TERM 10 RED	(11")
12	DO TERM 11 BLK	(11")
13	DO TERM 15 BLU	(11")
14	DO TERM 17 GRY	(11")
15	AI TERM 13 BLK	(22")
16	AO TERM 13 RED	(16")
17	24 DC CONN (+) YEL	(8")
18	CAP BANK (+) BLU	(23")

REFERENCE DOCUMENT: SCHEMATIC, LONPOINT BRIEFCASE (012-1112-01)



REAR VIEW

APPROVALS	DATE
DRAWN G.M.J.	12/29/98
CHECKED	
INCL	
DATE	
REC'D	
BY	
DO NOT SCALE	
APPLICATION	
USED ON	
SIZE	B
QTY	013-1112-01
REV	C