HABITEST LINC OUTPUT CONVERTER

USERS GUIDE

H03-14

COULBOURN INSTRUMENTS

The H03-14 Habitest Linc Output Converter was designed to provide 5 Volt TTL compatible outputs simultaneously while running experiments within the Habitest System. The H03-14 converts the –28VDC outputs from the H02-08 or H02-01 Habitest Lincs to standard 5Volt, High True, TTL Logic. 14 of the 18 outputs are available as 5 Volt TTL outputs when the Habitest Linc Output Converter is used in conjunction with a Habitest Linc.

To use the H03-14 connect the 40-Pin ribbon cable from the Environment Control Board (H03-04) to the bottom 40-Pin connector labeled “To Connector Board (H03-04). This connector is located on the side of the H03-14 with the two 40-Pin IDC type connectors. The cable is included with ECB (H03-04).

Connect another 40-Pin Ribbon Cable (included with the H03-14) to the top 40-Pin connector of the H03-14. This cable also connects to the Habitest Linc (H02-08 or H01-02) to either the A or B side. If you need 5 Volt TTL outputs from both the A and B side of a Habitest Linc you will need two (2) H03-14 Habitest Output Converters. These connectors provide the -28 volt pass through between the Habitest Linc and the Environment.

The connector on the other side of the H03-14 is a 26 pin IDC type connector. This connector contains the converted +5V TTL outputs. The table below provides the pinout by function for this connector. The cable for this connection should be provided by the manufacturer of the system that is being interfaced to the Habitest System. If the cable is not available or your need a cable manufactured for your applications you can contact Coulbourn Instruments for a quotation or provide the information below to anyone who will be manufacturing the cable for you.

26 PIN IDC HEADER PINOUT

PIN #	FUNCTION		PIN #	FUNCTION
1	GND		14	FEEDER2 OP
2	GND		15	TONE
3	SPARE1		16	HOUSE LIGHT
4	SPARE2		17	N/C
5	SPARE3		18	N/C
6	SPARE4		19	GND
7	CUE1-1		20	N/C
8	CUE1-2		21	GND
9	CUE1-3		22	N/C
10	CUE2-1		23	N/C
11	CUE2-2		24	N/C
12	CUE2-3		25	N/C
13	FEEDER1 OP		26	N/C

NOTE: THE FOLLOWING OUTPUTS CAN BE DISCONNECTED FROM THE 26PIN IDC HEADER BY REMOVING THE INTERNAL SHUNTS. THIS IS REQUIRED WHEN USED WITH THE PLEXON DIGITAL INPUT BOARD WHEN THE PLEXON SYSTEM IS CONFIGURED FOR 8 DIGITAL INPUTS (MODE 2) OR STROBED INPUTS (MODE 3).

EVENT 11	**CUE2-2**
EVENT 12	**CUE2-3**
EVENT 13	**FEEDER1 OP**
EVENT 14	**FEEDER2 OP**
EVENT 15	**TONE**
EVENT 16	**HOUSE LIGHT**