ADPT-25-IV µDAQ-26/30 & PCI-730/E CURRENT LOOP ADAPTER MODULE

Features

Easy connection via screw terminals to gain access to Analog I/O; Ext Trigger & Clock and Power (only a small flat screw driver is required)

Voltage I/Ps can be converted to (4-20mA) Current I/Ps by simply installing jumpers (which introduce a 100 (0.1%) Ohm resistor in series with each channel.

I/P channels used to measure Current, can be jumper selected for Single Ended (ie: Chan 0..15) or Differential (ie: Chan 0 & 8..7 & 15)

A mixture of Voltage; SE Current & DIFF Current I/Ps can be selected by correctly installing the appropriate jumpers (the top/bot legends on the board shown below, must be used for this purpose and a schematic is also available if required).

This module can be used with ALL µDAQ-26/30 & R-µDAQ-26/30 units (ie: USB; Serial; Wireless & Ethernet) and PCI-725/726/730/725E/726E/730E boards.

Thumb screws are included to secure this module to the µDAQ DIO unit.

ADPT-25-IV

Description

DB37 of ADPT-37103 plugs into any µDAQ-26/30 Analog I/O connector or PCI-730/E Analog I/O connector

Analog I/Ps are accessible via screw terminals ACH0..ACH15

Analog O/Ps are accessible via screw terminals DAC0..3

External Clock & Trigger (for µDAQ & R-µDAQ units ONLY) are accessible via screw terminals CLK & TRIG

Auxiliary power O/P (for PCI-730/E ONLY) is accessible via screw terminals +VDD & -VDD

Current select jumpers MUST be removed on all channels which are to be used as Voltage I/Ps
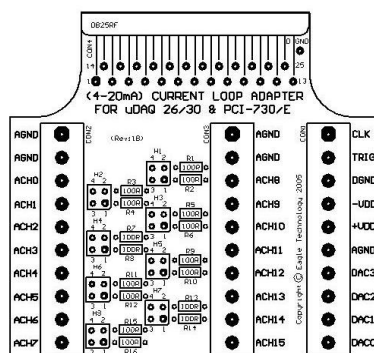

TOP VIEW

Temperature Ranges

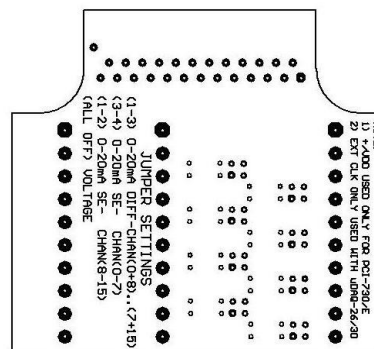Operating Temperature: 0° to 60°C
Storage Temperature: -20° to 80°C

Physical Dimensions

62.0mm (width) X 65.0mm (length) X 15.0mm(height)

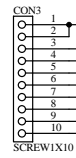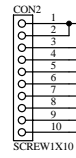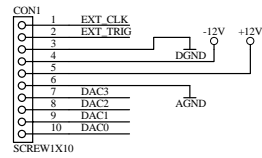BOT VIEW

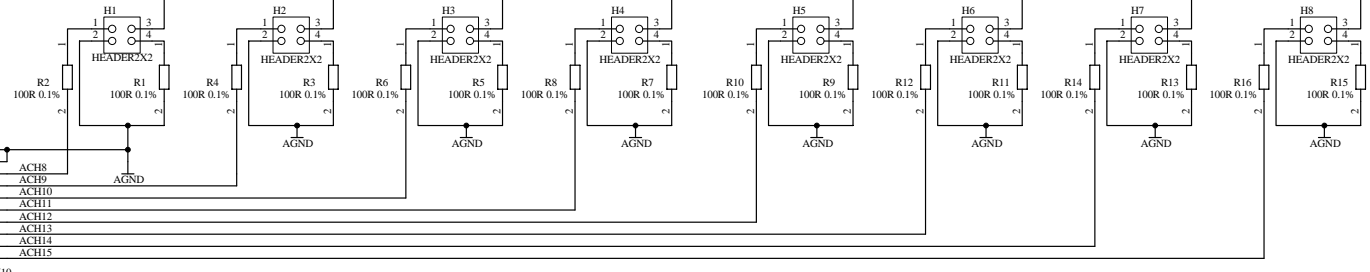# uDAQ 26/30 & PCI-730/E (4-20mA) CURRENT LOOP SCREW TERMINAL ADAPTER BOARD

CON4
DB25RF

+12V -12V

EXT_CLK	13
EXT_TRIG	25
	12
	24
DAC3	11
DAC2	23
DAC1	10
DAC0	22
AGND	9
ACH15	21
ACH14	8
ACH13	20
ACH12	7
ACH11	19
ACH10	6
ACH9	18
ACH8	5
ACH7	17
ACH6	4
ACH5	16
ACH4	3
ACH3	15
ACH2	2
ACH1	14
ACH0	1

AGND

WIRE LINK
SOLDERED
TO SHELL

26

DGND

+12V

+12V

-12V

-12V

DGND

DGND

AGND

AGND

CON1

1	EXT_CLK
2	EXT_TRIG
3	
4	
5	
6	
7	DAC3
8	DAC2
9	DAC1
10	DAC0

-12V +12V

DGND

AGND

SCREW1X10

NOTE:

1) +/-12V IS ONLY USED WITH PCI-730/E DAQ BOARDS
2) EXT CLK IS ONLY USED WITH uDAQ 26/30 UNITS

CON2

1	
2	
3	ACH0
4	ACH1
5	ACH2
6	ACH3
7	ACH4
8	ACH5
9	ACH6
10	ACH7

AGND

SCREW1X10

H1 H2 H3 H4 H5 H6 H7 H8
HEADER2X2 (×8)

R2 100R 0.1%   R1 100R 0.1%
R4 100R 0.1%   R3 100R 0.1%
R6 100R 0.1%   R5 100R 0.1%
R8 100R 0.1%   R7 100R 0.1%
R10 100R 0.1% R9 100R 0.1%
R12 100R 0.1% R11 100R 0.1%
R14 100R 0.1% R13 100R 0.1%
R16 100R 0.1% R15 100R 0.1%

AGND

CON3

1	
2	
3	ACH8
4	ACH9
5	ACH10
6	ACH11
7	ACH12
8	ACH13
9	ACH14
10	ACH15

AGND

SCREW1X10
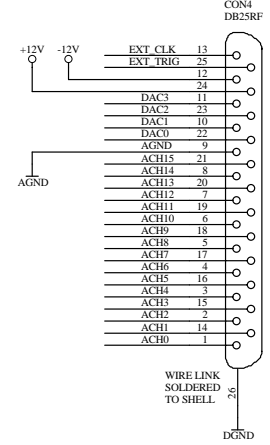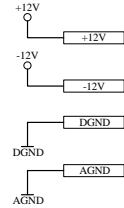
JUMPER SETTINGS:

(1-3) -   0-20mA CURRENT LOOP (DIFF.) - CHAN (0+8)..(7+15)

(3-4) -   0-20mA CURRENT LOOP (S.E.) - CHAN (0-7)

(1-2) -   0-20mA CURRENT LOOP (S.E.) - CHAN (8-15)

ALL OFF - VOLTAGE