

# Integrity Instruments

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**DB15TS-**



**DB25TS-U**

**DIGITAL & ANALOG I/O  
CUSTOM  
TERMINAL STRIPS**

**DB25TS-U DB15TS-U**

# Integrity Instruments A & D Custom TS User Manual

## DB25TS-U CUSTOM

The **DB25TS-U** terminal strip with DB25 male connector has nomenclature corresponding to the Digital I/O port of all of the Integrity Instruments M2, M3 and M4 series of Data Acquisition modules. It is shipped with hardware to attach permanently to the module.

The **DB25TS-U** provides for easy access to the Digital I/O of our M2, M3, and M4 series modules as well as to all the other power, ground and other voltages available.

The tables below list the I/O connection and the signals available at the Digital I/O point of the data acquisition modules.

All connections for both the M2, M3, and M4 series are identical, except of course that the M2 series only has 8 digital I/O points.

Digital I/O M2 Series	
DB25 Pins	Description
1	Port 2 Bit 0
2	Port 2 Bit 1
3	Port 2 Bit 2
4	Port 2 Bit 3
5	Port 2 Bit 4
6	Port 2 Bit 5
7	Port 2 Bit 6
8	Port 2 Bit 7
9	PWM output
10	N/A
11	+V_Unreg
12	+5Vdc
13	GND
14	N/A
15	N/A
16	N/A
17	N/A
18	N/A
19	N/A
20	N/A
21	N/A
22	Pulse Counter Input
23	N/A
24	+5Vdc
25	GND



Digital I/O M3 and M4 Series	
DB25 Pins	Description
1	Port 2 Bit 0
2	Port 2 Bit 1
3	Port 2 Bit 2
4	Port 2 Bit 3
5	Port 2 Bit 4
6	Port 2 Bit 5
7	Port 2 Bit 6
8	Port 2 Bit 7
9	PWM output
10	N/A
11	+V_Unreg
12	+5Vdc
13	GND
14	Port 1 Bit 0
15	Port 1 Bit 1
16	Port 1 Bit 2
17	Port 1 Bit 3
18	Port 1 Bit 4
19	Port 1 Bit 5
20	Port 1 Bit 6
21	Port 1 Bit 7
22	Pulse Counter Input
23	-5Vdc
24	+5Vdc
25	GND

# Integrity Instruments A & D Custom TS User Manual

## DB15TS-U CUSTOM

The **DB15TS-U** terminal strip with DB55 male connector has nomenclature corresponding to the Analog I/O port of all of the Integrity Instruments M2, M3 and M4 series of Data Acquisition modules. It is shipped with hardware to attach permanently to the module.

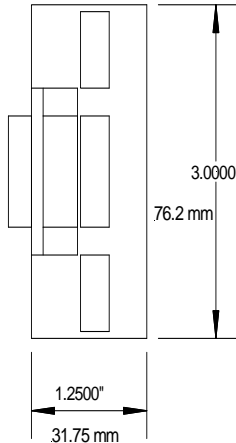
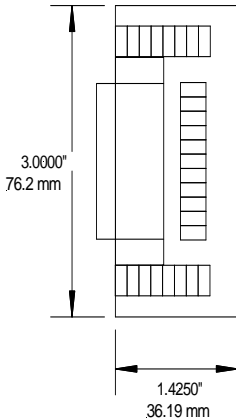
The **DB15TS-U** provides for easy access to the Analog I/O of our M2, M3, and M4 series modules as well as to all the other power, ground and other voltages available.

The tables below list the I/O connection and the signals available at the analog I/O point of the data acquisition modules.

M2 series ANALOG I/O	
DB15 Pins	Description
1	NA
2	NA
3	NA
4	NA
5	NA
6	NA
7	ANALOG IN CHANNEL 1
8	ANALOG IN CHANNEL 0
9	GND
10	+ V UNREG
11	+ 5VDC REG
12	NA
13	V REFERENCE
14	ANALOG OUT B
15	ANALOG OUT A



M# and M4 series ANALOG I/O	
DB15 Pins	Description
1	ANALOG IN CHANNEL 7
2	ANALOG IN CHANNEL 6
3	ANALOG IN CHANNEL 5
4	ANALOG IN CHANNEL 4
5	ANALOG IN CHANNEL 3
6	ANALOG IN CHANNEL 2
7	ANALOG IN CHANNEL 1
8	ANALOG IN CHANNEL 0
9	GND
10	+ V UNREG
11	+ 5VDC REG
12	- V UNREG
13	V REFERENCE
14	ANALOG OUT B
15	ANALOG OUT A



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## REFERENCE

Hexadecimal conversion chart

EXAMPLE HEX CONVERSION																
	X				X				Y				Y			
BITS	1	1	0	0	1	0	0	0	1	0	1	1	0	1	1	1
HEX	C				8				B				7			

PORT 1								PORT 2											
X				X				Y				Y							
H E X V A L U E	BIT VALUE				H E X V A L U E	BIT VALUE				H E X V A L U E	BIT VALUE				H E X V A L U E	BIT VALUE			
	7	6	5	4		3	2	1	0		7	6	5	4		3	2	1	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	1	1	0	0	0	1	1	0	0	0	1	1	0	0	0	1
2	0	0	1	0	2	0	0	1	0	2	0	0	1	0	2	0	0	1	0
3	0	0	1	1	3	0	0	1	1	3	0	0	1	1	3	0	0	1	1
4	0	1	0	0	4	0	1	0	0	4	0	1	0	0	4	0	1	0	0
5	0	1	0	1	5	0	1	0	1	5	0	1	0	1	5	0	1	0	1
6	0	1	1	0	6	0	1	1	0	6	0	1	1	0	6	0	1	1	0
7	0	1	1	1	7	0	1	1	1	7	0	1	1	1	7	0	1	1	1
8	1	0	0	0	8	1	0	0	0	8	1	0	0	0	8	1	0	0	0
9	1	0	0	1	9	1	0	0	1	9	1	0	0	1	9	1	0	0	1
A	1	0	1	0	A	1	0	1	0	A	1	0	1	0	A	1	0	1	0
B	1	0	1	1	B	1	0	1	1	B	1	0	1	1	B	1	0	1	1
C	1	1	0	0	C	1	1	0	0	C	1	1	0	0	C	1	1	0	0
D	1	1	0	1	D	1	1	0	1	D	1	1	0	1	D	1	1	0	1
E	1	1	1	0	E	1	1	1	0	E	1	1	1	0	E	1	1	1	0
F	1	1	1	1	F	1	1	1	1	F	1	1	1	1	F	1	1	1	1

### WARRANTY

Integrity Instruments warranties all products against defective workmanship and components for the life of the unit. Integrity Instruments agrees to repair or replace, at its sole discretion, a defective product if returned to Integrity Instruments with proof of purchase. Products that have been mis-used, improperly applied, or subject to adverse operating conditions fall beyond the realm of defective workmanship and are not covered by this warranty.

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