

# Integrity Instruments

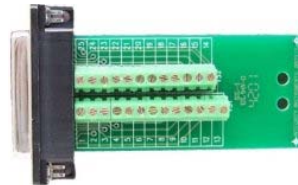
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**DB25TSM**



**DB25TSF**



**DB15TSM**



**DB15TSF**

**TERMINAL STRIPS  
GENERIC  
DB25TSF DB25TSM  
DB15TSF DB15TSM**

# Integrity Instruments DB15 & DB25 TS User Manual

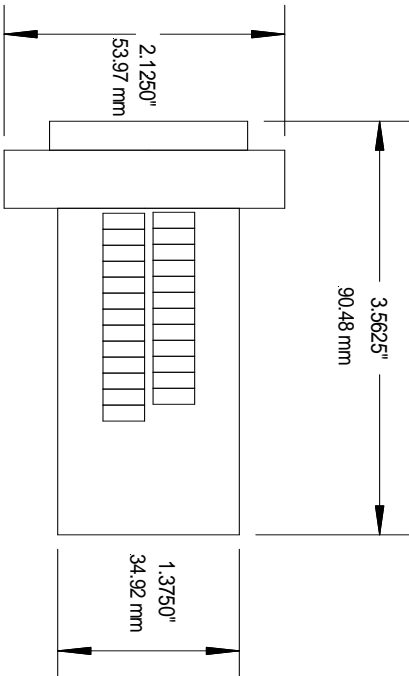
## DB25TSM GENERIC

The **DB25TSM** terminal strip with DB25 male connector has nomenclature corresponding to the DB25 pin numbers, and mates directly 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 **DB25TSF** terminal strip with DB25 female connector provides for easy access to your equipment with a DB25 male connector

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 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 DB15 & DB25 TS User Manual

## DB25TSF GENERIC

The **DB25TSF** terminal strip with DB25 female connector has nomenclature corresponding to the DB25 pin numbers and is a general purpose DB25 to terminal strip device

It can be used with Integrity Instruments I/O expander boards, **EXP-TRK** and **EXP-STA**.

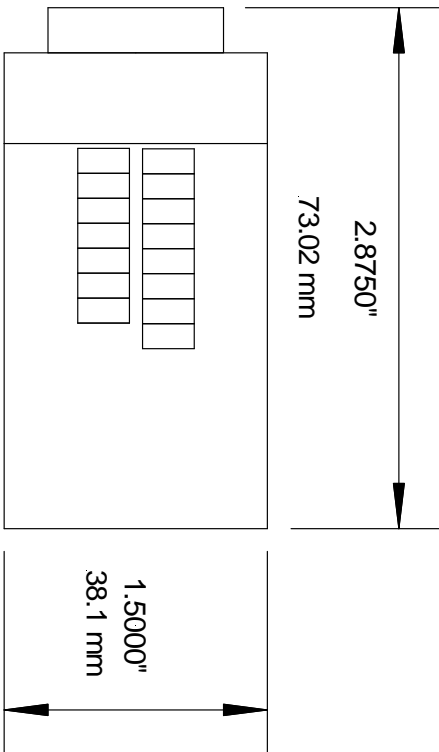
With the **DB25TSF** connected to the **EXP** board, any signal inputs from any controller can be used to control the I/O modules on the expander board.

## DB15TSM GENERIC

The **DB15TSM** terminal strip with DB15 male connector has nomenclature corresponding to the DB15 pin numbers, and mates directly 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 **DB15TSF** terminal strip with DB15 female connector provides for easy access to your equipment with a DB15 male connector.

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



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

# Integrity Instruments DB15 & DB25 TS User Manual

## REFERENCE

Hexadecimal conversion chart

EXAMPLE HEX CONVERSION																
	X				X				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						
HEX VALUE	BIT VALUE				BIT VALUE				BIT VALUE				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			
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

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