

MODEL 2800 USER'S MANUAL

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Document Number : 9032

Date: Oct 10, 2011

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WARNING

THE 2800 USES LINE VOLTAGES FOR ITS OPERATION WHICH ARE POTENTIALLY DANGEROUS. IMPROPER OPERATION OF THIS EQUIPMENT MAY RESULT IN PERSONAL INJURY OR LOSS OF LIFE. HENCE THE EQUIPMENT DESCRIBED IN THIS MANUAL SHOULD BE OPERATED ONLY BY PERSONNEL TRAINED IN PROCEDURES THAT WILL ASSURE SAFETY TO THEMSELVES, TO OTHERS AND TO THE EQUIPMENT.

BEFORE PERFORMING ANY MAINTENANCE, TURN THE POWER OFF AND DISCONNECT THE POWER CORD FROM THE POWER SOURCE.

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INTRODUCTION

The model 2800 Industrial computer is a PC-compatible computer that is specifically designed for use in hazardous locations that are classified as Class 1 Division 2. Typical applications include rig-floor monitoring and use in chemical plants. The rugged yet compact design of the 2800 makes it easy to install and remove off rig-floors and makes it suitable for use under all weather conditions. The 2800 is shown ifnFigure 1.1

The 2800 model is available in the following options:

2800-AC Rev D (Standard)

a. 2800-AC-M2 Rev B b. 2800-AC-M5 Rev A c. 2800-AC-M6 Rev B

2800-ACW Rev B (Standard) Wireless

a. 2800-ACW-M4 Rev B b. 2800-ACW-M7 Rev B

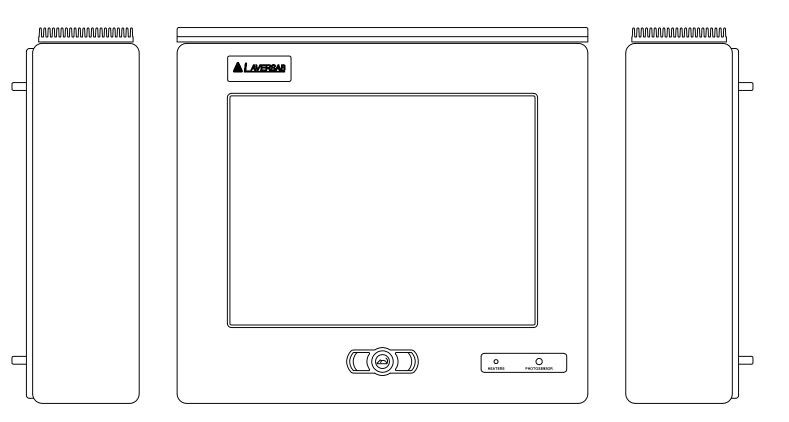
2800-DC Rev D (Standard)

a. 2800-DC-M1 Rev B b. 2800-DC-M3 Rev B

2800-DCW Rev B (Standard) Wireless

Standard Features:

- Pentium M @ 1.8 GHz CPU or Atom 1.6 GHz CPU
- 15.0" TFT Color Ultra-Hibrite sunlight readable display with 1024 x 768 resolution
- Auto-dimming of display brightness based on ambient light
- High resolution, scratch resistant touch-screen
- Fully sealed redundant mouse
- Up to 1 GB System RAM
- 2.5" form factor HDD, minimum of 80 GB
- 2.5" form factor SSD, minimum 8 GB (optional)
- 110/220 VAC or 24 VDC nominal operating voltage
- Two USB ports, barrier protected
- One Serial Port, barrier protected
- One Ethernet port, barrier protected
- One external Keyboard port, barrier protected
- Two 900 MHZ Wireless Radio with antenna (Wireless models only)
- Internal heaters operating on 110/220 VAC allow operation between -40°C and +50°C
- Sealed enclosure allows operation outdoors
- Total weight of 25 lbs makes it easily portable
- Dimensions of 16.5" wide, 14.5" high and 4.5" deep provide a small form factor
- UL 1604 / CSA C22.2 No. 213 certified for use in Class 1 Division 2 locations Groups A, B, C and D; Temp code T6.



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Figure 1.1

SAFETY

The following safety instructions must be followed to prevent possible hazards of fire, electrical shock and bodily harm.

- 1. **WARNING :** The model 2800 must be connected to an appropriate power source as indicated on the information label on the rear panel of the unit.
- 2. **WARNING:** AC Units: The circuit breaker for the power connection on the rear panel of the unit must be in the OFF position such that the internal circuits are not energized, whenever the power source is either connected or disconnected from the unit.
- 3. **WARNING:** DC Units: The circuit breaker for the power connection on the rear panel of the unit must be in the OFF position such that the internal circuits are not energized, whenever the power source is either connected or disconnected from the unit.
- 4. **WARNING:** The unit must never be opened or left open in a hazardous location. The rear panel and the top heat sink must be securely fastened before the unit is introduced into a hazardous location.
- 5. **WARNING:** Do not install or operate this unit in an area where the temperature is outside the limits indicated on the information label on the rear panel of the unit.
- 6. **WARNING:** All connections made to the unit must strictly adhere to the rules set forth in Section 3.2 of this manual.
- 7. **WARNING:** There are no user-serviceable components inside this unit. The unit must not be opened to repair or replace any components. If components are repaired or replaced by the user, the unit may no longer be suitable for use in hazardous locations and may become an explosion hazard.
- 8. **WARNING:** The Model 2800 is suitable for use in Class I Division 2 (Groups A D) hazardous locations and non-hazardous locations only.
- 9. **CAUTION:** Do not cover or obstruct the slots and fins on the top heat sink in a manner that would restrict air flow between the slots or across the fins.
- 10. **CAUTION:** Do not install the unit in an unstable manner that could cause it to tip over.
- 11. **CAUTION:** Follow all instructions and warnings marked on the unit and also those included in this manual.

Approvals:

The Model 2800 conforms to the following standards:

UL60950 / CSA 60950 CAN/CSA – C22.2 No. 60950.00 UL 1604 CAN / CSA – C22.2 No. 213-M1987

INSTALLATION

The installation process consists of:

- a. Loading the application software onto the 2800
- b. Mounting the 2800 on-site using an appropriate mounting bracket.
- c. Making the connections to the 2800

3.1 Loading software

The 2800 is provided with a Windows operating system that is pre-installed with the network enabled. All software must be loaded through the USB ports (USB1.1 std.). It is not necessary to open the unit to load the software.

If software modifications require that the unit be opened to have access to internal connectors, this must be done at the Laversab facility. If the unit is opened by the user then it may severely impair the hazardous location classification of the unit.

3.2 Mounting the 2800

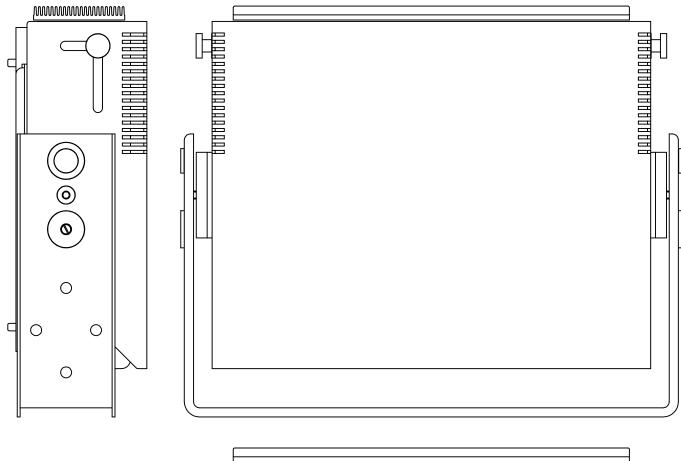
A suitable mounting bracket may be fabricated by the user based on the user's mounting requirements. Figure 3.1 shows a suggested mounting bracket for mounting the 2800 on a flat plate or on a pipe stand with an optional adapter. The mounting bracket should be fastened to the four mounting studs provided on the rear panel of the unit. The studs are $\frac{3}{4}$ inch in length with a thread size of $\frac{5}{16} - 18$.

WARNING: The mounting bracket should not cover any of the markings and warnings on the rear panel of the 2800.

WARNING: The mounting bracket should not cover any of the connectors or the circuit breakers on the rear panel of the 2800.

WARNING: The mounting bracket should not restrict air-flow between the fins of the top heat-sink.

CAUTION: The mounting bracket should not cover the photo-resistor lens on the front of the 2800.



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3.3 Connections to the 2800

There is a significant difference on how connections may be made to the 2800 based on whether the location of use is hazardous or non-hazardous.

3.3.1 Non-hazardous locations

2800 Models		CABLES PROVIDE	D	
2800-AC Rev D (Standard)	AC POWER	RS-232 / 2 USB	KEYBOARD	LAN
a. 2800-AC-M2 Rev B	AC POWER	USB / LAN	KB / MOUSE	
b. 2800-AC-M5 Rev A	AC POWER	RS-232 / 2 USB	KEYBOARD	LAN
c. 2800-AC-M6 Rev B	AC POWER	RS-232 / USB	KB WITH STAND	LAN
2800-ACW Rev B (Standard)	AC POWER	RS-232 / 2 USB	KEYBOARD	LAN
a. 2800-ACW-M4 Rev B	AC POWER	2 USB	KEYBOARD	LAN
b. 2800-ACW-M7 Rev B	AC POWER	USB/RS-232/RS-422/XDR	KEYBOARD	LAN
2800-DC Rev D (Standard)	DC POWER	RS-232 / 2 USB	KEYBOARD	LAN
a. 2800-DC-M1 Rev B	DC POWER	2 USB	KEYBOARD	LAN
b. 2800-DC-M3 Rev B	DC POWER	RS-232 / USB	STAND ALONE KB	LAN
2800-DCW Rev B (Standard)	DC POWER	RS-232 / 2 USB	KEYBOARD	LAN

The unit is provided with external cables according to the model option. (refer to Table 3.3.1.a)

Table 3.3.1.a

WARNING: All the above cables are for use in **non-hazardous locations only**. Using these cables in hazardous locations may impair the hazardous location classification of the unit.

The AC power cable is terminated in a NEMA 5-15 plug and may only be connected to a power source of 110/220 VAC, 50/60 Hz.

The DC power cable must be connected to an external 24 Volts (+/- 2 volts) DC power source. The termination on the end of the power cable marked '+' must be connected to positive output of the 24 VDC power source. The termination on the end of the power cable marked '-' must be connected to negative output of the 24 VDC power source. The termination on the end of the power cable marked 'E' must be connected to Earth Ground.

The LAN cable is terminated in a standard RJ-45 plug which must be connected to any 10/100 M-bit Ethernet LAN device that adheres to the IEEE 802.3 standard.

The Keyboard cable is terminated in a standard PS2 female connector that may be connected to any standard PS2 keyboard.

The Serial / USB cable is split up into 3 separate terminations. The terminations labeled 'COM1', 'COM2' provide a DB-9 male connector which may be connected to any EIA RS-232C connection. The terminations labeled 'USB1', 'USB2' provides a Type A Jack (4 position) which may be connected to any device with the USB standard ; due to the safety barriers the USB can only support full speed standard (USB 1.1) and since they are current limited, it is recommended to use externally powered devices when possible.

The drawings and pin-outs of these cables are provided in Appendix B.

3.3.2 Hazardous locations

The user is required to provide all the external cables for use in hazardous locations. The cabling and connection methods and restrictions are detailed below. The Control Drawing for all connections to the 2800 is shown in Figure A-1.

1. AC Power cable:

The pin-out for the AC POWER INPUT connector on the rear panel of the 2800 is provided in Appendix A. The mating connector is also listed in Appendix A. The External 110 VAC, 60Hz or 220 VAC, 50 Hz power source must be located in a non-hazardous location.

2. DC Power cable:

The pin-out for the DC POWER INPUT connector on the rear panel of the 2800 is provided in Appendix A. The mating connector is also listed in Appendix A. The External 24 VDC (+/-2 VDC) power source must be located in a non-hazardous location.

WARNING: The power cord used must adhere to the following rules:

- a. The power cord must be approved for "extra hard" usage.
- b. The section of the power cord that runs through a hazardous area must be protected by rigid conduit with liquid-tight ends.
- c. Only the last 3 feet before the power cord mates to the 2800 may be left unprotected without the rigid conduit.
- d. The power cord must be terminated into the external AC or DC power source as shown in Figure A-1

WARNING: Make sure that the POWER circuit breaker on the rear panel of the 2800 is in the OFF position before connecting or disconnecting the POWER INPUT connector. Do not connect or disconnect the POWER INPUT connector when the circuits are energized.

WARNING: Ensure that the external power source is OFF before connecting or disconnecting the POWER INPUT connector.

3. <u>LAN cable</u>

The pin-out for the LAN connector on the rear panel of the 2800 is provided in Appendix A. The mating connector is also listed in Appendix A.

WARNING: The LAN cable may only be terminated into a 10/100 M-bit Ethernet LAN device that adheres to the IEEE 802.3 standard. The Control Drawing for this connection is shown in Figure A-1.

A shielded CAT-5 cable may be used to provide this connection to the 2800. Although no special cable protection is required in a hazardous location, it is recommended that the LAN cable be run in the same rigid conduit used for the power cable.

WARNING: Make sure that the POWER and circuit breaker on the rear panel of the 2800 are in the OFF position before connecting or disconnecting the LAN connector. Do not connect or disconnect the LAN connector when the circuits are energized.

4. Keyboard cable

The pin-out for the keyboard connector on the rear panel of the 2800 is provided in Appendix A. The mating connector is also listed in Appendix A.

For details on the keyboard cable, please refer to the Control Drawing shown on Figure A-1.

WARNING: The keyboard cable may be connected only to an intrinsically safe keyboard per the Control Drawing shown in Figure A-1. The recommended keyboard is the model KBM-IS.

WARNING: The keyboard cable must be terminated in a locking connector. The intrinsically safe keyboard must be able to mate to this locking connector.

WARNING: Do not connect or disconnect the keyboard when the circuits are energized. Make sure that the POWER circuit breaker on the rear panel of the 2800 is in the OFF position before connecting or disconnecting the keyboard.

5. USB/Serial cable

WARNING: The USB part of the cable may only be terminated into a connection that adheres to the USB 1.1 standard. The Control Drawing for this connection is shown in Figure A-1.

WARNING: The Serial part of the cable may only be terminated into a connection that adheres to the EIA RS-232C standard. The Control Drawing for this connection is shown in Figure A-1.

WARNING: Do not connect or disconnect the USB/Serial connector when the circuits are energized. Make sure that the POWER and circuit breaker on the rear panel of the 2800 are in the OFF position before connecting or disconnecting the USB/Serial connector.

A shielded cable may be used to provide the USB/Serial connection to the 2800. Although no special cable protection is required in a hazardous location, it is recommended that this communication cable be run in the same rigid conduit used for the power cable.

TYPICAL USE

After the 2800 has been installed per the instructions provided in Section 3 of this manual, the unit may be turned ON for operation in the following sequence:

- 1. Turn ON the external power source (AC or DC).
- 2. Turn ON the devices that provide the Ethernet and RS232 interfaces in the non-hazardous location.
- 3. Turn ON the POWER circuit breaker (AC or DC) on the 2800.

If the ambient temperature is below 5°C then the 2800 may not boot up immediately. The internal heaters and fans will start operating and attempt to bring the temperature inside the 2800 above 5°C. While this process is on-going, the heaters LED will turn on indicating that the heaters are operating. The heaters may operate for up to 30 minutes before the internal temperature rises above 5°C, at which point the computer section of the 2800 will boot up.

When the computer section of the 2800 is starting to boot up, the backlight on the display will turn on and the display will be completely white for a period of about 2 to 5 seconds. Thereafter, the boot-up screen will be displayed.

During normal use, the application software will communicate through the LAN and/or the Serial port and show the necessary information on the display. The keyboard may be used as an input device by the user, but typically, the touch-screen and/or the mouse on the front panel, are the only input devices used.

CAUTION: Do not use a sharp object to "touch" the touch-screen. Scratching the touch-screen surface in any way will cause the touch-screen to mal-function.

The mouse on the front panel is configured such that the circular button in the center is the cursor movement button, and the two buttons on either side of it are the left and right click keys. The circular button is pressure sensitive. The harder it is pressed, the faster is the cursor movement.

The mouse and the touch-screen may be used alternately. This means that they are both active at all times and cursor movements and icon selections etc. may be done by either one of them. The "right-click" function on the touch-screen is available and can be configured through the driver application. Cursor movement and icon selection is easier with the touch-screen whereas, "dragging" is easier with the mouse.

If the touch-screen is inoperative, the mouse will still provide the user with input capability. Thereby, the mouse provides redundancy for the touch-screen.

The photo-resistor lens on the front of the unit must be kept un-obstructed and clean during normal operation. This will allow the auto-dimming circuit to properly regulate the brightness of the display based on the ambient light conditions.

WARNING: During normal operation the user must not alter any of the connections to the 2800, including the keyboard connection. Before altering (connecting or disconnecting) any connection, both circuit breakers on the 2800 must be turned OFF so that all internal circuits are de-energized. Failure to do so may create an explosion hazard.

REMOVAL

While removing (de-installing) the 2800 from normal operation, follow the sequence shown below:

WARNING: Do not disconnect ANY connectors while circuits are energized.

- 1. Turn OFF the POWER circuit breaker on the 2800.
- 2. Turn OFF the external power source located in the non-hazardous area.
- 3. Turn OFF the devices in the non-hazardous area that provide the LAN and RS232 interfaces to the 2800.
- 4. Disconnect the POWER INPUT connector from the 2800.
- 5. Disconnect the LAN connector.
- 6. Disconnect the Serial connector.
- 7. Disconnect the keyboard connector.
- 8. Remove the 2800 from its mounting stand and move it out of the hazardous location.

WARNING: Not following the above sequence may induce an explosion hazard

MAINTENANCE & SERVICING

6.1 MAINTENANCE

The only regular maintenance procedures required on the 2800 are:

- a. Clean the touch-screen with water or any commercial window cleaner, using a clean, soft, lintfree cloth. Care must be taken not to scratch the touch-screen during the cleaning process. Do not use any abrasive substance, or any organic solvents to clean the touch-screen.
- b. Clean the photo-resistor lens in the same manner as described in 'a.' above.
- c. Clean the top heat-sink to remove all dirt and foreign objects that may be stuck between the fins of the heat-sink.

WARNING: Do NOT pressure-wash the 2800.

6.2 SERVICING

CAUTION: Risk of explosion if battery is replaced by an incorrect type. Dispose off used batteries in the prescribed manner.

WARNING: Substitution of components is strictly prohibited

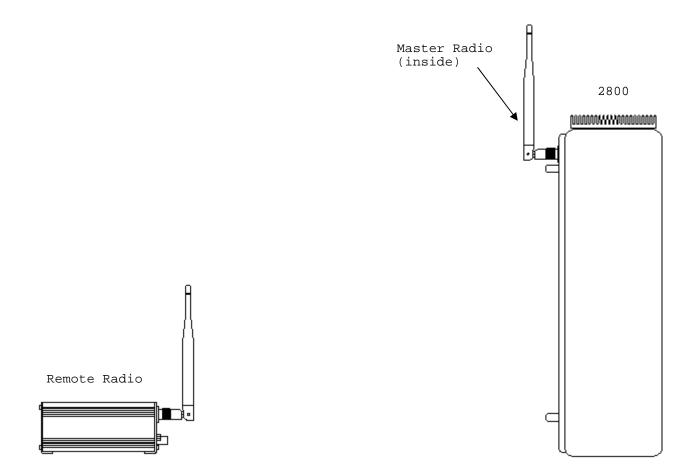
WARNING: The Model 2800 does not contain any user-serviceable or user-replaceable components. The 2800 must not be opened by the user in an attempt to repair or service the unit. Doing so may severely impair the hazardous location classification of the unit. All repairs and servicing of the unit can only be performed at the Laversab facility.

WIRELESS OPTION

Wireless option applies to the following 2800 models:

2800-ACW (Std) 2800-DCW (Std) 2800-ACW-M4 2800-ACW-M7

These models are equipped with a set of two 900 Mhz radios; one inside the unit (master radio) and a stand-alone radio (remote radio).



Note: For radio configuration, please refer to "Wireless Radio Setup" Manual.

APPENDIX A

EXTERNAL CONNECTIONS (HAZARDOUS / NON HAZARDOUS) LOCATIONS

The external connectors, pin-outs and connection details shown below reference the Control Drawing shown in Figure A-1. Individual connector drawings are shown in Figures A2 through A6.

HAZARDOUS		Interconnect	NC	ON HAZARDOUS	
USB/SERIAL Connector			USB connectors		
CN. Type	ITT Cannon KPT02A14-19S		Conn. Type	Std. USB "A" Socket	
Mating Pin #	ITT Cannon KPT06J14-19P Signal		Mating Pin #	Standard USB A connector Signal	
A	N.C.				
В	USB1 +5V		1	+5 V	
С	USB1 D-		2	D-	
D	USB1 D+		3	D+	
E	USB1 GND		4	GND	
F	N.C.		RS- CN. Type Mating Pin #	-232 connector Standard DB-9 male Standard DB-9 female Signal	
G	RX (COM1)		2	RX	
<u> </u>	TX (COM1)		3	ТХ	
J	GND (COM1)		5	GND	
<u> </u>	USB2 D-		5		
L	USB2 D+	-			
 M	USB2 GND	-			
N	N.C.				
P	N.C.	-			
R	USB2 +5V				
S	N.C.				
Т	N.C.				
U	N.C.				
V	N.C.				

A.1 MODEL 2800 STANDARD

Please refer to Figure A.1.1-1 and Figure A.1.2-2

	Interconnect	
HAZARDOUS	Interconnect	NON HAZARDOUS

LAN Connector 2800				
CN. Type	ITT Cannon KPT02A12-8S			
Mating	ITT Cannon KPT06J12-8P			

LAN connector				
CN. Type	Standard RJ-45 plug			
Mating	Standard RJ-45 socket			

Pin #	Signal	Pin #	Signal
А	TD +	1	TD +
В	TD -	2	TD -
С	RD -	6	RD -
D	RD +	3	RD +
E	N.C.	4	N.C.
F	N.C.	5	N.C.
G	N.C.	7	N.C.
Н	N.C.	8	N.C.

Please refer to Figure A.1.1-2 and Figure A.1.2-3

HAZARDOUS		Interconnect	NON	HAZARDOUS
DC Po	wer Input Connector		24 VDC	Power supply
CN. Type	B. Harrison 1R5G06A20A120			
Mating	B. Harrison 105000A02F060			
Pin #	Signal		Color	Signal

Pin #	Signal	Color	Signal
O (Orange)	N.C.	Orange	N.C.
B (Black)	+24 VDC	Black	+24 VDC
G (Green)	Earth Ground	Green	Earth Ground
W (White)	24 VDC Return	White	24 VDC return
R (Red)	N.C.	Red	N.C.

Please refer to Figure A.1.1-5 and Figure A1.2-4

Note: Pins are not marked on the DC connector. The pin numbers shown indicate the wire color used for each pin internally.

HAZARDOUS Interco	nnect NON HAZARDOUS
-------------------	---------------------

AC Power Input Connector		
CN. Type	B. Harrison 1R3G06A20A120	
Mating	B. Harrison 103000A01F060	

AC connector		
CN. Type	Std NEMA L6-15 Plug	
Mating	Std. NEMA L6-15 socket	

Pin #	Signal	[Pin #	Signal
G (Green)	Earth Ground		G	Earth Ground
W (White)	Neutral		Y	Neutral
B (Black)	Line		Х	Line

Please refer to Figure A.1.1-4 and Figure A.1.2-5

HAZARDOUS	Interconnect	NON HAZARDOUS

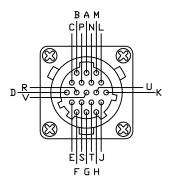
Keyboard connector		
CN. Type	ITT Cannon KPT02A10-6S	
Mating	ITT Cannon KPT06J10-6P	

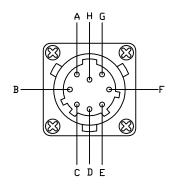
Keyboard connector		
CN. Type	Std. PS2 female connector	
Mating	Std. PS2 male connector	

Pin #	Signal		Pin #	Signal
А	KBD CLK		5	KBD CLK
В	KBD DATA		1	KBD DATA
С	KBD +5V		4	KBD +5V
D	KBD GND		3	KBD GND
E	N.C			
F	N.C]		

Please refer to Figure A1.1-3 and Figure A.1.2-1

MODEL 2800 STANDARD





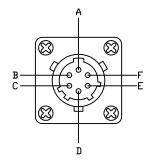


Figure A.1.1-1 COM1,USB1,USB2 connector

Figure A.1.1-2 LAN connector

Figure A.1.1-3 Keyboard connector

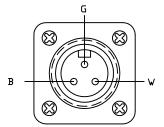


Figure A.1.1-4 AC power input connector

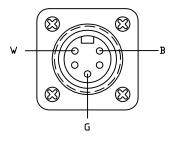


Figure A.1.1-5 DC power input connector

MODEL 2800 STANDARD

NON-HAZARDOUS HAZARDOUS PS2 female Mates to keyboard m connector on 2800 keyboard Figure A.1.2-1 DB-9 male COM 1 Mates to CDM 1 USB 1, USB 2, <u>uřu</u> USB 1 connector on 2800 ułu USB 2 Figure A.1.2-2 Mates to LAN RJ-45 plug connector on 2800 Figure A.1.2-3 Green Mates to Þ Black DC input 0 power connector 10 on 2800 White Figure A.1.2-4 Mates to AC input 000 100 NEMA 5-15 0 000 power connector on 2800 Figure A.1.2-5

	HAZARDOUS	Interconnect		NON HAZARDOUS
U	SB1/USB2 Connector]		USB1 connector
CN. Type	ITT Cannon KPT02A14-19S		Conn. Type	Std. USB "A" Socket
Mating	ITT Cannon KPT06J14-19P		Mating	Standard USB A connector
Pin #	Signal		Pin #	Signal
А	N.C.			
В	USB1 +5V		1	+5 V
С	USB1 D-		2	D-
D	USB1 D+		3	D+
E	USB1 GND		4	GND
F	N.C.			
Г	N.C.			USB2 connector
G	N.C.		Conn. Type	Std. USB "A" Socket
н	N.C.		Mating	Standard USB A connector
J	N.C.		Pin #	Signal
К	USB2 D-		2	D-
L	USB2 D+		3	D+
М	USB2 GND		4	GND
N	N.C.			
Р	N.C.			
R	USB2 +5V		1	+5 V
S	N.C.			_
Т	N.C.			
U	N.C.			
V	N.C.			

A.2: MODEL 2800-DC-M1

Please refer to Figure A.2.1-1 and Figure A.2.2-1

HAZARDOUS Interconnect NON HAZARDOUS

LAN Connector		
CN. Type	ITT Cannon KPT02A12-8S	
Mating	ITT Cannon KPT06J12-8P	

LAN connector		
CN. Type	Standard RJ-45 plug	
Mating	Standard RJ-45 socket	

Pin #	Signal	Pin #	Signal
А	TD +	1	TD +
В	TD -	2	TD -
С	RD -	6	RD -
D	RD +	3	RD +
E	N.C.	4	N.C.
F	N.C.	5	N.C.
G	N.C.	7	N.C.
н	N.C.	8	N.C.

Please refer to Figure A.2.1-2 and Figure A.2.2-3

	HAZARDOUS	Interconnect	NON HAZARDOUS	
DC Pov	ver Input Connector]	24 VDC	Power supply
CN. Type	B. Harrison 1R5G06A20A120			
Mating	B. Harrison 105000A02F060			
Pin #	Signal		Color	Signal
O (Orange)	N.C.		Orange	N.C.

O (Orange)	N.C.	Orange	N.C.
B (Black)	+24 VDC	Black	+24 VDC
G (Green)	Earth Ground	Green	Earth Ground
W (White)	24 VDC Return	White	24 VDC return
R (Red)	N.C.	Red	N.C.

Please refer to Figure A.2.1-5 and Figure A.2.2-4

Note: Pins are not marked on the DC connector. The pin numbers shown indicate the wire color used for each pin internally.

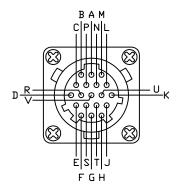
	HAZARDOUS		NON	HAZARDOUS
AC Po	wer Input Connector		Α	C connector
CN. Type	B. Harrison 1R3G06A20A120		CN. Type	Std NEMA L6-15 Plug
Mating	B. Harrison 103000A01F060		Mating	Std. NEMA L6-15 socket
Pin #	Signal		Pin #	Signal
G (Green)	Earth Ground		G	Earth Ground
W (White)	Neutral		Y	Neutral
B (Black)	Line		Х	Line

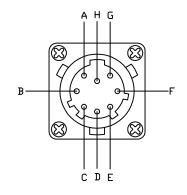
Please refer to Figure A.2.1-4 and Figure A.2.2-5

	HAZARDOUS		NC	ON HAZARDOUS
		-		
Key	board connector	4	Key	board connector
CN. Type	ITT Cannon KPT02A10-6S	_	CN. Type	Std. PS2 female connector
Mating	ITT Cannon KPT06J10-6P		Mating	Std. PS2 male connector
		-		
Pin #	Signal		Pin #	Signal
А	KBD CLK		5	KBD CLK
В	KBD DATA		1	KBD DATA
С	KBD +5V		4	KBD +5V
D	KBD GND		3	KBD GND
E	N.C			
F	N.C			

Please refer to Figure A.2.1-3 and Figure A.2.2-1

MODEL 2800 -DC-M1





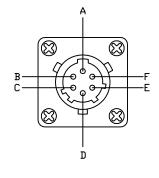


Figure A.2.1-1 COM1,USB1,USB2 connector

Figure A.2.1-2 LAN connector

Figure A.2.1-3 Keyboard connector

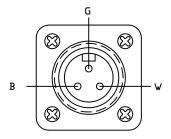


Figure A.2.1-4 AC power input connector

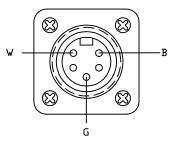
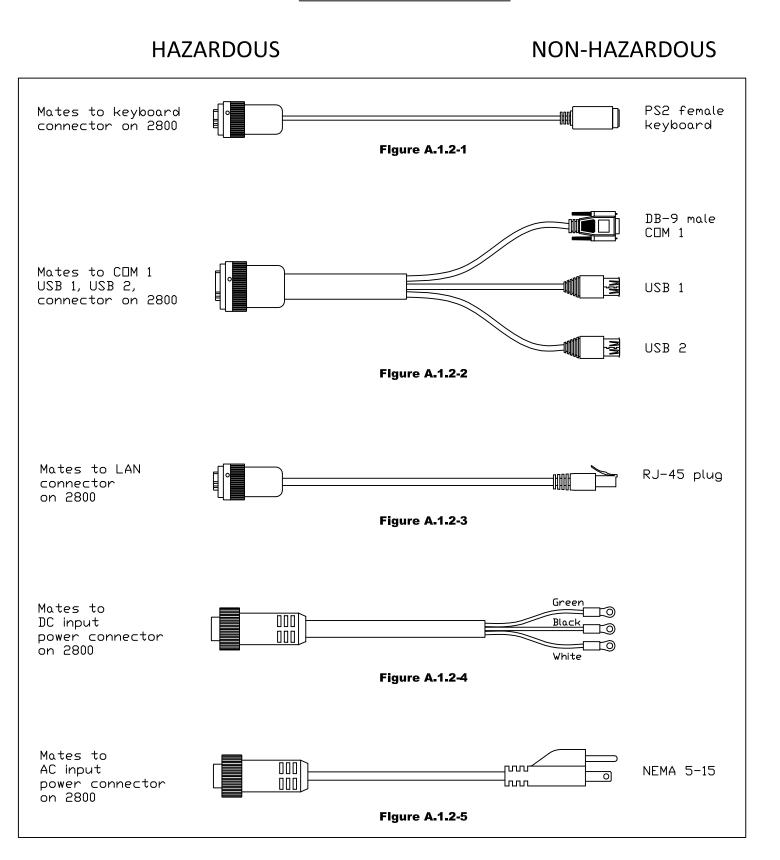


Figure A.2.1-5 DC power input connector

MODEL 2800-DC-M1



A.3: MODEL 2800-AC-M2

HAZARDOUS		Interconnect	NC	ON HAZARDOUS
		_		
USB/	USB/SERIAL Connector		US	B connectors
CN. Type	ITT Cannon KPT02A14-19S		Conn. Type	Std. USB "A" Socket
Mating	ITT Cannon KPT06J14-19P		Mating	Standard USB A connector
Pin #	Signal		Pin #	Signal
А	N.C.			
В	USB1 +5V		1	+5 V
С	USB1 D-		2	D-
D	USB1 D+		3	D+
Е	USB1 GND		4	GND
F	N.C.			
G	N.C.			
Н	N.C.			
J	N.C.			
К	N.C.			
L	N.C.			
М	N.C.		L/	AN connector
Ν	N.C.		CN. Type	Standard RJ-45 plug
Р	N.C.		Mating	Standard RJ-45 socket
R	N.C.		Pin #	Signal
S	LAN TD +		1	TD +
Т	LAN TD -		2	TD -
U	LAN RD -		6	RD -
V	LAN RD +		3	RD +

Please refer to Figure A.3.1-1 and Figure A.3.2-2

HAZARDOUS	Interconnect	NON HAZARDOUS
-----------	--------------	---------------

AC Power Input Connector					
CN. Type B. Harrison 1R3G06A20A120					
Mating					

AC connector					
CN. Type Std NEMA L6-15 Plug					
Mating	Std. NEMA L6-15 socket				

Pin #	Signal	[Pin #	Signal
G (Green)	Earth Ground		G	Earth Ground
W (White)	Neutral		Y	Neutral
B (Black)	Line		Х	Line

Please refer to Figure A.3.1-4 and Figure A.3.2-3

HAZARDOUS	Interconnect	NON HAZARDOUS

Ke	yboard connector]	Keyboard connector	
CN. Type	ITT Cannon KPT02A10-6S		CN. Type	Std. PS2 female connector
Mating	ITT Cannon KPT06J10-6P		Mating	Std. PS2 male connector

Pin #	Signal		Pin #	Signal
А	KBD CLK	5	keyboard	KBD CLK
В	KBD DATA	1	keyboard	KBD DATA
С	KBD +5V		4 kb/m	KBD +5V
D	KBD GND		3 kb/m	KBD GND
E	MOUSE CLK		5 mouse	MOUSE CLK
F	MOUSE DATA		1 mouse	MOUSE DATA

Please refer to Figure A-1 and Figure A-6

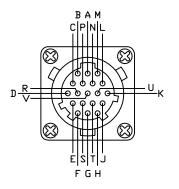
Black Box Connector on 2800-AC-M2 (Please refer to Figure A.3.1-2)

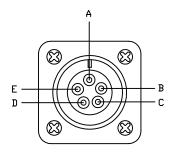
Connector type : ITT Cannon MS3102E14S-5P Mating connector: ITT Cannon MS3106F14S-5S Pin-out:

Pin #	Signal
А	RCV+
В	RCV-
С	XTM+
D	XMT-
Е	BB terminal strip

A.3.1 Drawing: Back connectors

MODEL 2800-AC-M2





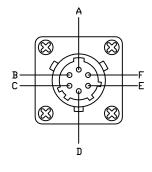


Figure A.3.1-1 LAN,USB1 connector

Figure A.3.1-2 Black box connector

Figure A.3.1-3 Keyboard/mouse connector

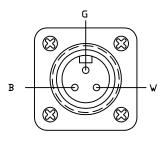
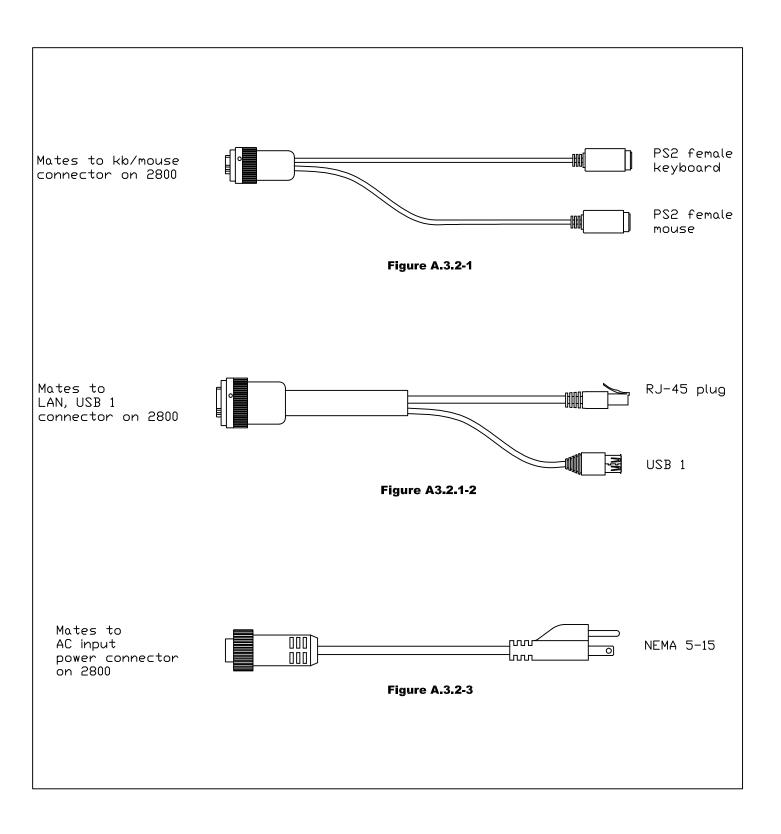


Figure A.3.1-4 AC power input connector

MODEL 2800-AC-M2



A.4 2800-DC-M3

	HAZARDOUS	Interconnect	NC	ON HAZARDOUS
USB/S	ERIAL Connector		US	B connectors
CN. Type	ITT Cannon KPT02A14-19S		Conn. Type	Std. USB "A" Socket
Mating	ITT Cannon KPT06J14-19P		Mating	Standard USB A connector
Pin #	Signal]	Pin #	Signal
Α	N.C.			
В	USB1 +5V		1	+5 V
С	USB1 D-		2	D-
D	USB1 D+		3	D+
E	USB1 GND		4	GND
F	N.C.			232 connector
			CN. Type	Standard DB-9 male
			Mating Pin #	Standard DB-9 female
			Pin #	Signal
G	RX (COM1)		2	RX
Н	TX (COM1)		3	ТХ
J	GND (COM1)		5	GND
K	N.C.			
L	N.C.			
М	N.C.			
N	N.C.			
P	N.C.			
R	N.C.			
S	N.C.			
Т	N.C.			
U	N.C.			
V	N.C.	J		

Please refer to Figure A.4.1-1 and Figure A.4.2-2

HAZARDOUS Interconnect NON HAZARDOUS	HAZARDOUS
--------------------------------------	-----------

LAN	Connector 2800
CN. Type	ITT Cannon KPT02A12-8S
Mating	ITT Cannon KPT06J12-8P

LAN	l connector
CN. Type	Standard RJ-45 plug
Mating	Standard RJ-45 socket

Pin #	Signal	Pin #	Signal
А	TD +	1	TD +
В	TD -	2	TD -
С	RD -	6	RD -
D	RD +	3	RD +
E	N.C.	4	N.C.
F	N.C.	5	N.C.
G	N.C.	7	N.C.
Н	N.C.	8	N.C.

Please refer to Figure A.4.1-2 and Figure A.4.2-3

	HAZARDOUS	Interconnect	NON	HAZARDOUS
DC Po	wer Input Connector		24 VDC	Power supply
CN. Type	B. Harrison 1R5G06A20A120			
Mating	B. Harrison 105000A02F060			
Pin #	Signal		Color	Signal
O (Orange)	N.C.		Orange	N.C.
B (Black)	+24 VDC		Black	+24 VDC
G (Green)	Earth Ground		Green	Earth Ground
W (White)	24 VDC Return		White	24 VDC return
R (Red)	N.C.		Red	N.C.

Please refer to Figure A.4.1-4 and Figure A.4.2-4

Note: Pins are not marked on the DC connector. The pin numbers shown indicate the wire color used for each pin internally.

	• •	
HAZARDOUS	Interconnect	NON HAZARDOUS

Keyboard connector			
CN. Type	ITT Cannon KPT02A10-6S		
Mating	ITT Cannon KPT06J10-6P		

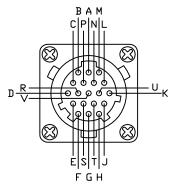
Keybo	oard connector
CN. Type	Std. PS2 female connector
Mating	Std. PS2 male connector

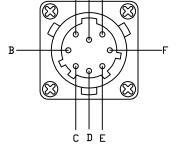
Pin #	Signal	Pin #	Signal
А	KBD CLK	5	KBD CLK
В	KBD DATA	1	KBD DATA
С	KBD +5V	4	KBD +5V
D	KBD GND	3	KBD GND
E	N.C		
F	N.C		

Please refer to Figure A.4.1-3 and Figure A.4.2-1

A.4.1 Drawing: Back connectors

MODEL 2800 - DC-M3





AHG

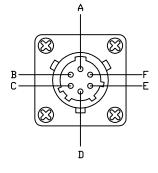


Figure A.4.1-1 COM1,USB1 connector

Figure A.4.1-2 LAN connector

Figure A.4.1-3 Keyboard connector

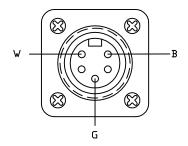
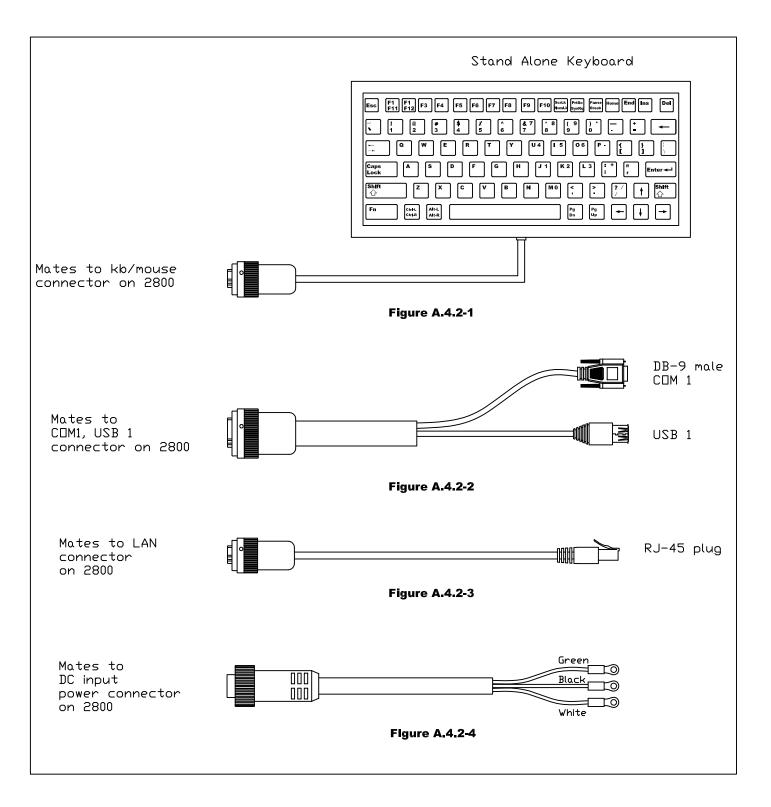


Figure A.4.1-4 DC power input connector

MODEL 2800-DC-M3



A.5: 2800-ACW-M4

	HAZARDOUS	Interconnect		NON HAZARDOUS
	B/SERIAL Connector	1		USB connectors
CN. Type	ITT Cannon KPT02A14-19S	1	Conn. Type	Std. USB "A" Socket
Mating	ITT Cannon KPT06J14-19P	-	Mating	Standard USB A connector
Pin #	Signal	1	Pin #	Signal
А	N.C.	1		
В	USB1 +5V		1	+5 V
С	USB1 D-		2	D-
D	USB1 D+		3	D+
Е	USB1 GND		4	GND
F	N.C.			
1	11.0.			USB connectors
G	N.C.		Conn. Type	Std. USB "A" Socket
Н	N.C.		Mating	Standard USB A connector
J	N.C.		Pin #	Signal
к	USB2 D-		2	D-
L	USB2 D+		3	D+
М	USB2 GND		4	GND
Ν	N.C.			
Р	N.C.			
R	USB2 +5V		1	+5 V
S	N.C.			
Т	N.C.			
U	N.C.			
V	N.C.			

Please refer to Figure A.5.1-1 and Figure A.5.2-2

HAZARDOUS Interconnect	NON HAZARDOUS
------------------------	---------------

LAN Connector 2800				
CN. Type	ITT Cannon KPT02A12-8S			
Mating	ITT Cannon KPT06J12-8P			

LAN connector			
CN. Type	Standard RJ-45 plug		
Mating	Standard RJ-45 socket		

Pin #	Signal	Pin #	Signal
А	TD +	1	TD +
В	TD -	2	TD -
С	RD -	6	RD -
D	RD +	3	RD +
E	N.C.	4	N.C.
F	N.C.	5	N.C.
G	N.C.	7	N.C.
Н	N.C.	8	N.C.

Please refer to Figure A.5.1-2 and Figure A.5.2-3

HAZARDOUS	Interconnect	NON HAZARDOUS
AC Power Input Connector		AC connector

CN. Type	B. Harrison 1R3G06A20A120		
Mating	B. Harrison 103000A01F060		

AC connector				
CN. Type	Std NEMA L6-15 Plug			
Mating	Std. NEMA L6-15 socket			

Pin #	Signal	Pin #	Signal
G (Green)	Earth Ground	G	Earth Ground
W (White)	Neutral	Y	Neutral
B (Black)	Line	Х	Line

Please refer to Figure A.5.1-4 and Figure A.5.2-4

	• • •	
HAZARDOUS	Interconnect	NON HAZARDOUS

Keyboard connector			
CN. Type	ITT Cannon KPT02A10-6S		
Mating	ITT Cannon KPT06J10-6P		

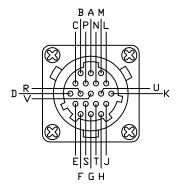
Keyboard connector			
CN. Type	Std. PS2 female connector		
Mating	Std. PS2 male connector		

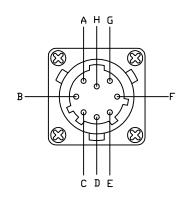
Pin #	Signal	Pin #	Signal
А	KBD CLK	5	KBD CLK
В	KBD DATA	1	KBD DATA
С	KBD +5V	4	KBD +5V
D	KBD GND	3	KBD GND
E	N.C		
F	N.C		

Please refer to Figure A.5.1-3 and Figure A.5.2-1

A.5.1 Drawing: Back connectors

MODEL 2800-AC-W-M4





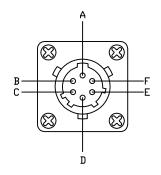


Figure A.5.1-1 USB1,USB2 connector

Figure A.5.1-2 LAN connector

Figure A.5.1-3 Keyboard connector

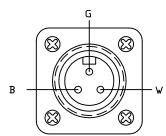


Figure A.5.1-4 AC power input connector

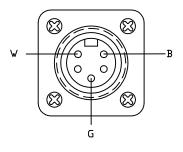
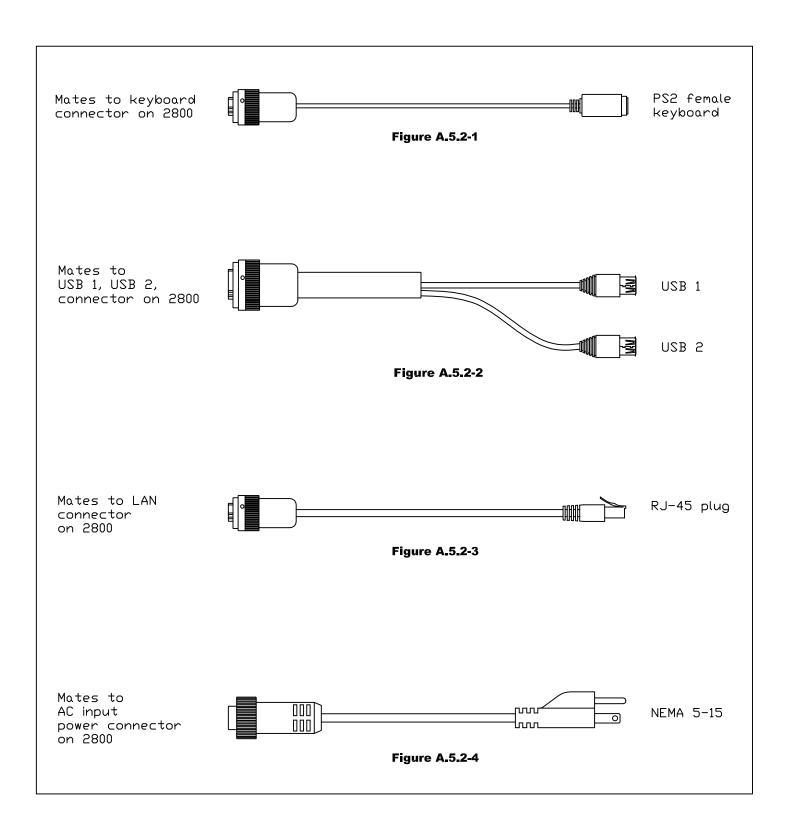


Figure A.5.1-5 DC power input connector

A.5.2 Drawing: Cables for Non-Hazardous location

MODEL 2800-AC-W-M4



A.6: 2800-AC-M5 MODEL

HAZARDOUS		Interconnect	NON HAZARDOUS	
		1		D compositore
	ERIAL Connector	-	USB connectors	
CN. Type	ITT Cannon KPT02A14-19S	-	Conn. Type	Std. USB "A" Socket
Mating	ITT Cannon KPT06J14-19P		Mating	Std. USB "A" connector
Pin #	Signal		Pin #	Signal
A	N.C.			
В	USB1 +5V		1	+5 V
С	USB1 D-		2	D-
D	USB1 D+		3	D+
E	USB1 GND		4	GND
F	N.C.		RS-232 connector	
			CN. Type	Standard DB-9 male
			Mating	Standard DB-9 female
			Pin #	Signal
G	RX (COM1)		2	RX
Н	TX (COM1)		3	TX
J	GND (COM1)		5	GND
К	USB2 D-			
L	USB2 D+			
М	USB2 GND			
Ν	N.C.			
Р	N.C.			
R	USB2 +5V			
S	N.C.			
Т	N.C.			
U	N.C.			
V	N.C.			

Please refer to Figure A.6.1-1 and Figure A.6.2-2

HAZARDOUS	NON HAZARDOUS

LAN	Connector 2800
CN. Type	ITT Cannon KPT02A12-8S
Mating	ITT Cannon KPT06J12-8P

LAN	l connector
CN. Type	Standard RJ-45 plug
Mating	Standard RJ-45 socket

Pin #	Signal	Pin #	Signal
А	TD +	1	TD +
В	TD -	2	TD -
С	RD -	6	RD -
D	RD +	3	RD +
E	N.C.	4	N.C.
F	N.C.	5	N.C.
G	N.C.	7	N.C.
Н	N.C.	8	N.C.

Please refer to Figure A.6.1-2 and Figure A.6.2-3

	HAZARDOUS	Interconnect	NON HAZARDOUS	
AC Po	wer Input Connector		AC connector	
CN. Type	B. Harrison 1R3G06A20A120		CN. Type	Std NEMA L6-15 Plug
Mating	B. Harrison 103000A01F060		Mating	Std. NEMA L6-15 socket

Pin #	Signal	Pin #	Signal
G (Green)	Earth Ground	G	Earth Ground
W (White)	Neutral	Y	Neutral
B (Black)	Line	Х	Line

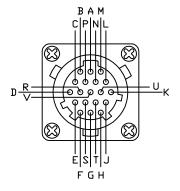
Please refer to Figure A.6.1-4 and Figure A.6.2-4

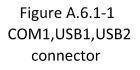
	HAZARDOUS	Interconnect	NON HAZARDOUS	
Key	board connector		Keyb	ooard connector
CN. Type	ITT Cannon KPT02A10-6S		CN. Type	Std. PS2 female connector
Mating	ITT Cannon KPT06J10-6P		Mating	Std. PS2 male connector
		-		
Pin #	Signal		Pin #	Signal
A	KBD CLK		5	KBD CLK
В	KBD DATA		1	KBD DATA
С	KBD +5V		4	KBD +5V
D	KBD GND		3	KBD GND
E	N.C			
F	N.C]		

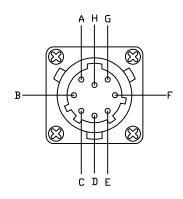
Please refer to Figure A.6.1-3 and Figure A.6.2-1

A.6.1 Drawing: Back connectors

MODEL 2800 - AC- M5







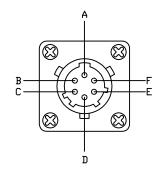


Figure A.6.1-2 LAN connector

Figure A.6.1-3 Keyboard connector

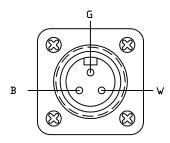
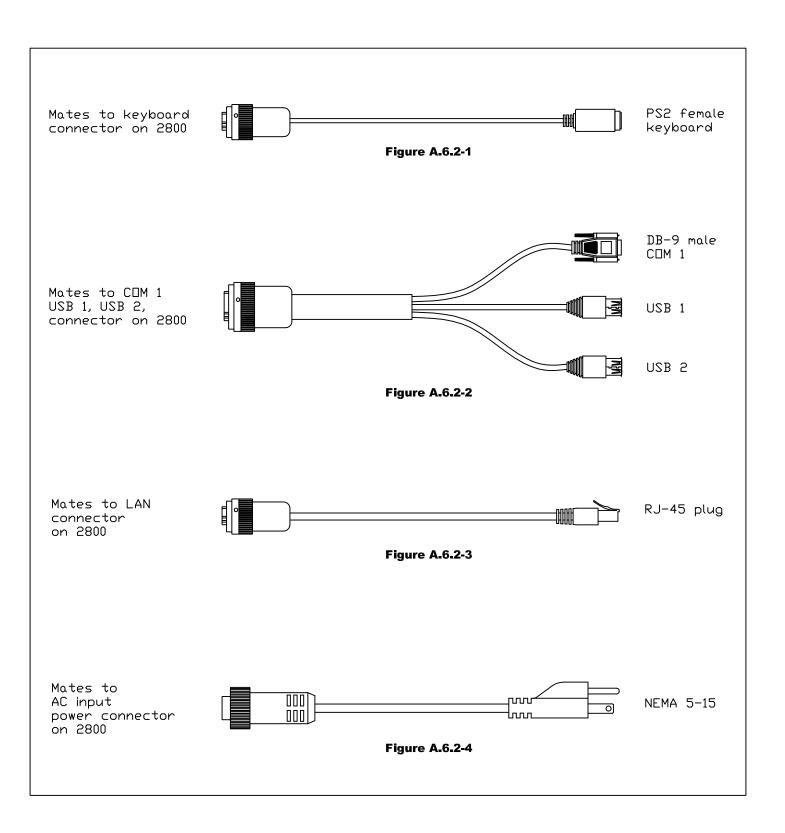


Figure A.6.1-4 AC power input connector

MODEL 2800-AC-M5



A.7: 2800-AC-M6 MODEL

	HAZARDOUS	Interconnect	NC	ON HAZARDOUS
		1		
	ERIAL Connector			B connectors
CN. Type	ITT Cannon KPT02A14-19S	-	Conn. Type	Std. USB "A" Socket
Mating	ITT Cannon KPT06J14-19P		Mating	Standard USB A connector
Pin #	Signal		Pin #	Signal
А	N.C.			
В	USB1 +5V		1	+5 V
С	USB1 D-		2	D-
D	USB1 D+		3	D+
E	USB1 GND		4	GND
F	N.C.			232 connector
			CN. Type	Standard DB-9 male
			Mating Pin #	Standard DB-9 female Signal
G	RX (COM1)		2	RX
Н	TX (COM1)		3	ТХ
J	GND (COM1)		5	GND
K	N.C.	-		
L	N.C.	-		
M	N.C.	-		
N	N.C.			
P	N.C.			
R	N.C.			
S	N.C.			
Т	N.C.			
U	N.C.			
V	N.C.			

Please refer to Figure A.7.1-1 and Figure A.7.2-2

NON HALANDOOD	HAZARDOUS	Interconnect	NON HAZARDOUS
---------------	-----------	--------------	---------------

LAN	Connector 2800
CN. Type	ITT Cannon KPT02A12-8S
Mating	ITT Cannon KPT06J12-8P

LAN	I connector
CN. Type	Standard RJ-45 plug
Mating	Standard RJ-45 socket

Pin #	Signal	Pin #	Signal
А	TD +	1	TD +
В	TD -	2	TD -
С	RD -	6	RD -
D	RD +	3	RD +
E	N.C.	4	N.C.
F	N.C.	5	N.C.
G	N.C.	7	N.C.
Н	N.C.	8	N.C.

Please refer to Figure A.7.1-2 and Figure A.7.2-3

AC connector	
Std NEMA L6-15 Plug	
Std. NEMA L6-15 socket	
ç	

Pin #	Signal	Pin #	Signal
G (Green)	Earth Ground	G	Earth Ground
W (White)	Neutral	Y	Neutral
B (Black)	Line	Х	Line

Please refer to Figure A.7.1-4 and Figure A.7.2-4

HAZARDOUS Ir	erconnect NON HAZARDOUS	
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Keyboard connector				
CN. Type ITT Cannon KPT02A10-6S				
Mating	ITT Cannon KPT06J10-6P			

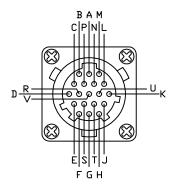
Keyboard connector			
CN. Type	Std. PS2 female connector		
Mating	Std. PS2 male connector		

Pin #	Signal	Pin #	Signal
А	KBD CLK	5 keyboard	KBD CLK
В	KBD DATA	1 keyboard	KBD DATA
С	KBD +5V	4 kb/m	KBD +5V
D	KBD GND	3 kb/m	KBD GND
E	MOUSE CLK	5 mouse	MOUSE CLK
F	MOUSE DATA	1 mouse	MOUSE DATA

Please refer to Figure A.7.1-3 and Figure A.7.2-1

A.7.1 Drawing: Back connectors

MODEL 2800 - AC-M6



ΑΗG

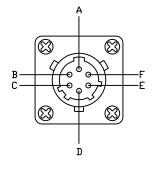


Figure A.7.1-1 COM1,USB1,USB2 connector

Figure A.7.1-2 LAN connector

Figure A.7.1-3 Keyboard connector

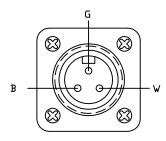
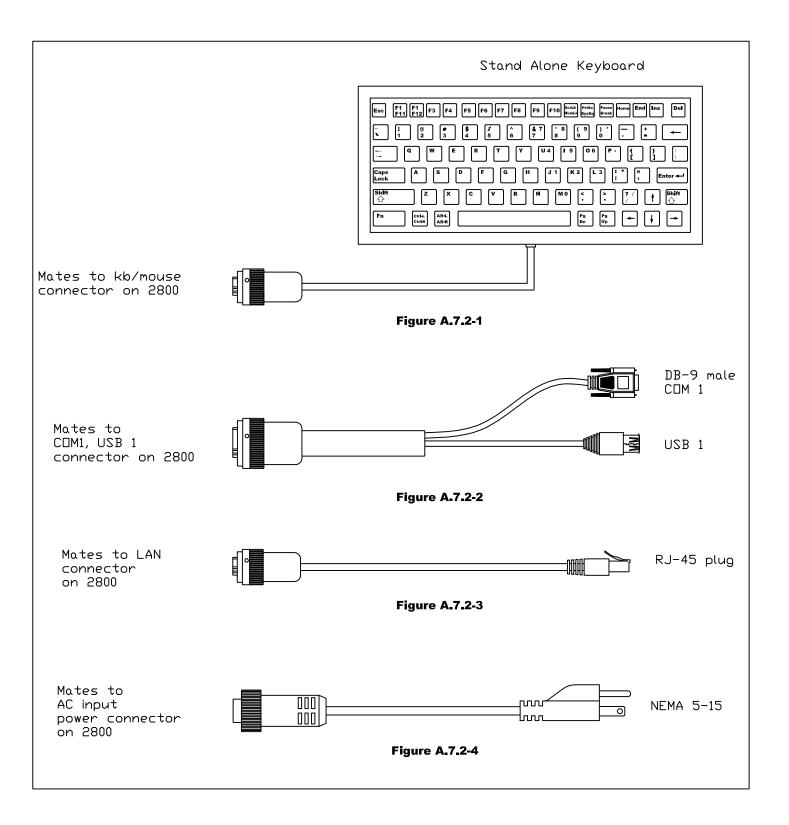


Figure A.7.1-4 AC power input connector

MODEL 2800-AC-M6



A.8 2800-AC-M7 MODEL

	HAZARDOUS	Interconnect	NO	N HAZARDOUS
LISB	/SERIAL Connector]	USB connectors	
CN. Type	ITT Cannon KPT02A14-19S		CN. Type	Std. USB "A" Socket
Mating	ITT Cannon KPT06J14-19P		Mating	Standard USB A connector
Pin #	Signal	ĺ	Pin #	Signal
А	N.C.			
В	USB4 +5V		1	+5 V
С	USB4 D-		2	D-
D	USB4 D+		3	D+
E	USB4 GND		4	GND
			RS	-232 connector
F	N.C.		CN. Type	Standard DB-9 male
			Mating	Standard DB-9 female
			Pin #	Signal
G	RX (COM2)		2	RX
Н	TX (COM2)		3	ТХ
J	GND (COM2)		5	GND
			RS	-422 connector
к	N.C.		CN. Type	KPT01F12-10S
			Mating	KPT06J12-10P
			Pin #	Signal
L	RS422-TX+		4	TX+
М	RS422-TX-		5	TX-
N	RS422-RX+		1	RX+
Р	RS422-RX-		2	RX-
	N.C.		Trans	sducer connector
R			CN. Type	ITT Cannon KPT01A10-6P
			Mating	ITT Cannon KPT02A10-6S
			Pin #	Signal
S	XDR-V+		В	XDR-V+
Т	XDR-GND		F	XDR-GND
U	N.C.		A	
V	XDR-24V		A	XDR-24V

Please refer to Figure A.8.1-1 and Figure A.8.2-2

HAZARDOUS Interconnect NON HAZARDOUS

LAN Connector 2800					
CN. Type	ITT Cannon KPT02A12-8S				
Mating "G"	ITT Cannon KPT06J12-8P				

LAN connector				
CN. Type Standard RJ-45 plug				
Mating	Standard RJ-45 socket			

Pin #	Signal	Pin #	Signal
А	TD +	1	TD +
В	TD -	2	TD -
С	RD -	6	RD -
D	RD +	3	RD +
E	N.C.	4	N.C.
F	N.C.	5	N.C.
G	N.C.	7	N.C.
Н	N.C.	8	N.C.

Please refer to Figure A.8.1-2 and Figure A.8.2-3

HAZARDOUS		Interconnect	NOM	N HAZARDOUS
AC Po	wer Input Connector		AC connector	
CN. Type	B. Harrison 1R3G06A20A120		CN. Type	Std NEMA L6-15 Plug
Mating	B. Harrison 103000A01F060		Mating	Std. NEMA L6-15 socket
wating	р. панізон тозооодотгово		wating	SIU. NEIVIA LO-15 SOCKEL

Pin #	Signal	Pin #	Signal
G (Green)	Earth Ground	G	Earth Ground
W (White)	Neutral	Y	Neutral
B (Black)	Line	Х	Line

Please refer to Figure A.8.1-4 and Figure A.8.2-4

HAZARDOUS		Interconnect	NON HAZARDOUS	
		1		
Keyboard connector			Keyboard connector	
CN. Type	ITT Cannon KPT02A10-6S		CN. Type	Std. PS2 female connector

ITT Cannon KPT06J10-6P

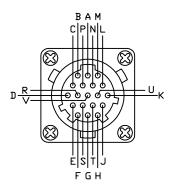
Mating

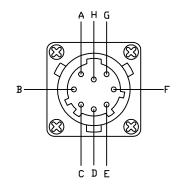
Reybuard connector				
CN. Type	Std. PS2 female connector			
Mating	Std. PS2 male connector			

Pin #	Signal	Pin #	Signal
А	KBD CLK	5	KBD CLK
В	KBD DATA	1	KBD DATA
С	KBD +5V	4	KBD +5V
D	KBD GND	3	KBD GND
E	N.C		
F	N.C		

Please refer to Figure A.8.1-3 and Figure A.8.2-1

MODEL 2800-AC-W-M7





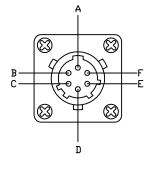


Figure A.8.1-1 RS232,USB1,RS422,XDUCER connector

Figure A.8.1-2 LAN connector

Figure A.8.1-3 Keyboard connector

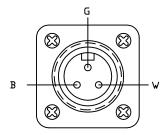
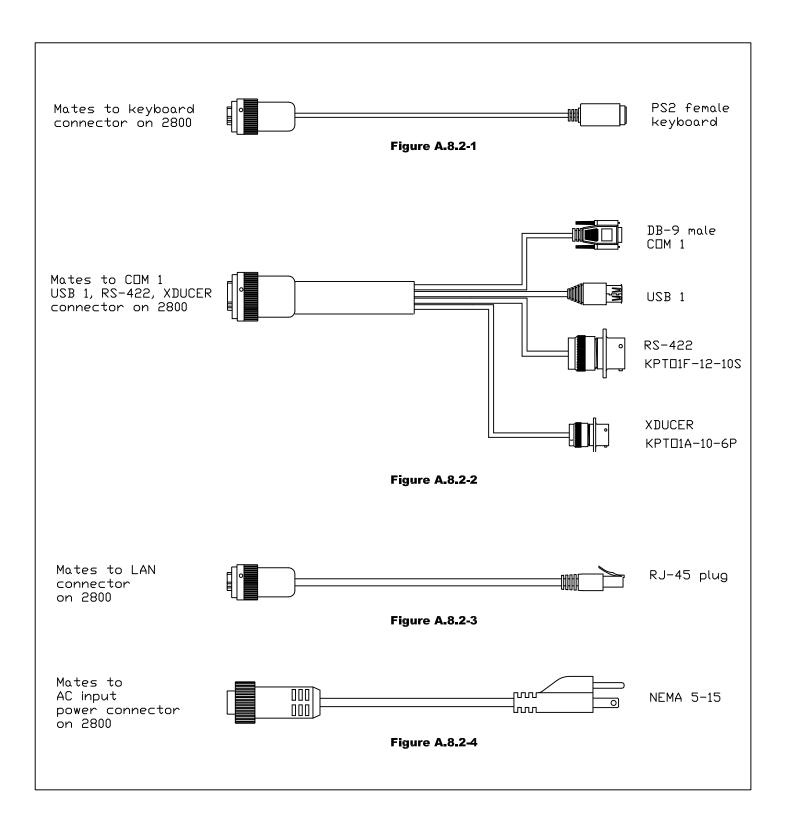


Figure A.8.1-4 AC power input connector

A.8.2 Drawing: Cables for Non-Hazardous location

MODEL 2800-AC-W-M7



APPENDIX B

REPAIR AND RETURN POLICIES

If it is determined that the product is defective, please call Laversab customer service department: (281) 325-8300 or e-mail <oservice@laversab.com> for further assistance.

Before shipping any equipment to Laversab for repair, please call the customer service department at (281) 325-8300 or e-mail to <oservice@laversab.com>. Please include a description of the problem that has been identified when returning defective equipment.

Ship equipment to :

LAVERSAB, INC. 505 Gillingham Lane Sugar Land, Texas 77478 U.S.A.