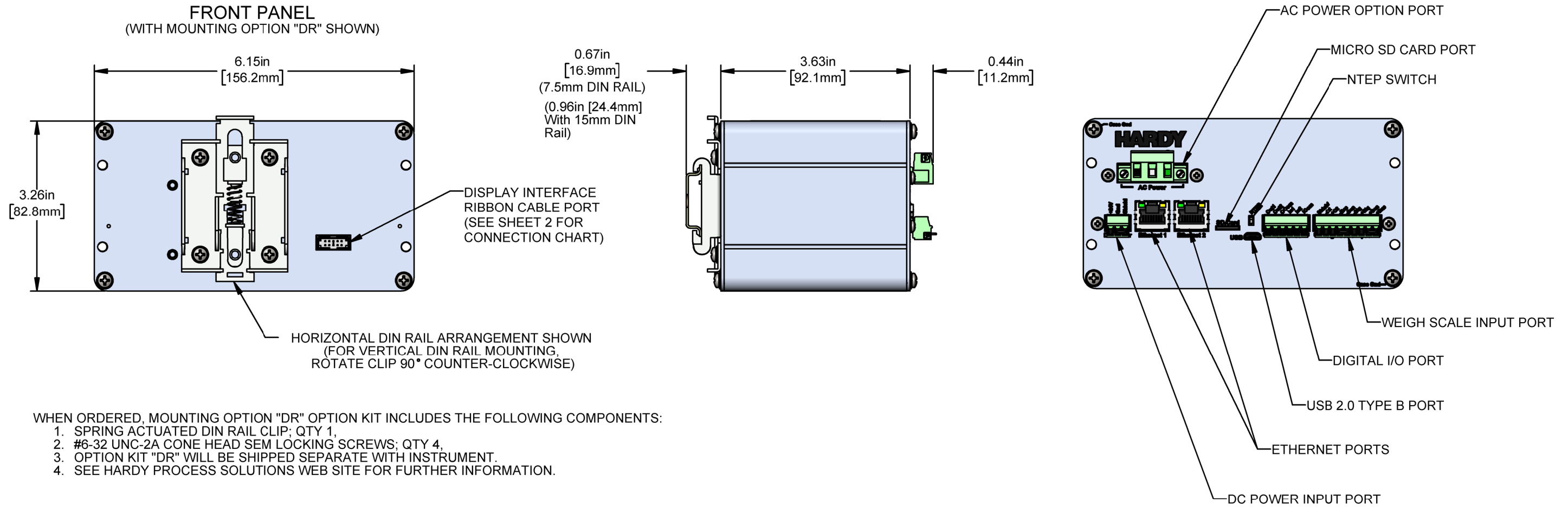


# HI 6800 SERIES INSTRUMENT

REV.	ECO/DDC	DESCRIPTION	DATE	DRAFT	CHECK	APVD
A	---	RELEASED.	10-09-23	V.J.C.	J.I.	V.J.C.



WHEN ORDERED, MOUNTING OPTION "DR" OPTION KIT INCLUDES THE FOLLOWING COMPONENTS:

1. SPRING ACTUATED DIN RAIL CLIP; QTY 1,
2. #6-32 UNC-2A CONE HEAD SEM LOCKING SCREWS; QTY 4,
3. OPTION KIT "DR" WILL BE SHIPPED SEPARATE WITH INSTRUMENT.
4. SEE HARDY PROCESS SOLUTIONS WEB SITE FOR FURTHER INFORMATION.

5. THIS DRAWING ONLY SHOWS THE AVAILABLE OPTION CONTENT FOR THE HI 6800 SERIES INSTRUMENTS. SEE HARDY PROCESS SOLUTIONS WEB SITE FOR INSTRUMENT SPECIFIC APPLICATION SOFTWARE VARIANTS.

4. IF THE HI 6800 INSTRUMENT IS USED IN A MANNER NOT SPECIFIED BY HARDY PROCESS SOLUTIONS, THE PROTECTION PROVIDED BY THE INSTRUMENT MAY BE IMPAIRED.

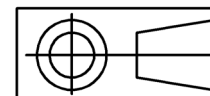
3 SEE SHEETS 3 AND 4 FOR USER INTERFACE CONNECTIONS.

2. SEE SHEET 2 FOR PANEL MOUNT DISPLAY OPTION.

1. SEE HARDY PROCESS SOLUTIONS WEB SITE FOR ADDITIONAL MOUNTING AND WIRING INFORMATION.

## NOTES: UNLESS OTHERWISE SPECIFIED

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ALL DATA AND INFORMATION CONTAINED IN OR DISCLOSED BY THIS DOCUMENT IS CONFIDENTIAL AND PROPRIETARY INFORMATION OF HARDY PROCESS SOLUTIONS AND ALL RIGHTS THEREIN ARE EXPRESSLY RESERVED. BY ACCEPTING THIS MATERIAL THE RECIPIENT AGREES THAT THIS MATERIAL AND THE INFORMATION CONTAINED THEREIN IS HELD IN CONFIDENCE AND IN TRUST AND SHALL NOT BE USED, COPIED, REPRODUCED IN WHOLE OR IN PART, NOR ITS CONTENTS REVEALED IN ANY MANNER TO OTHERS, EXCEPT TO MEET THE SPECIFIC PURPOSE FOR WHICH IT WAS DELIVERED.

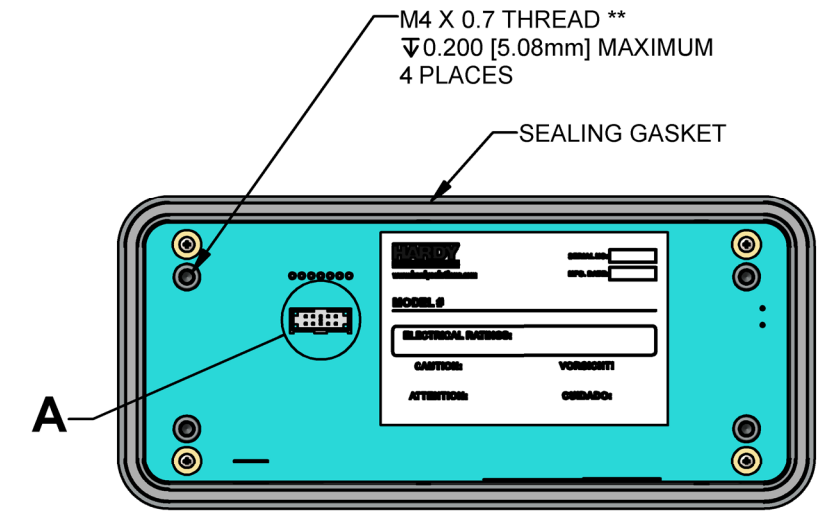
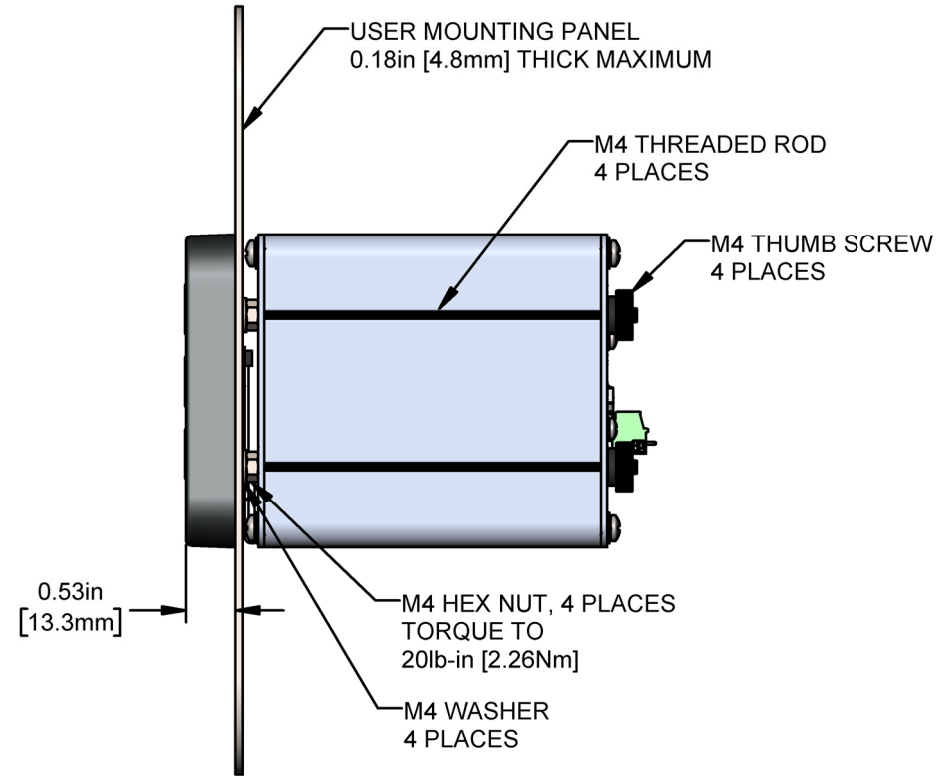
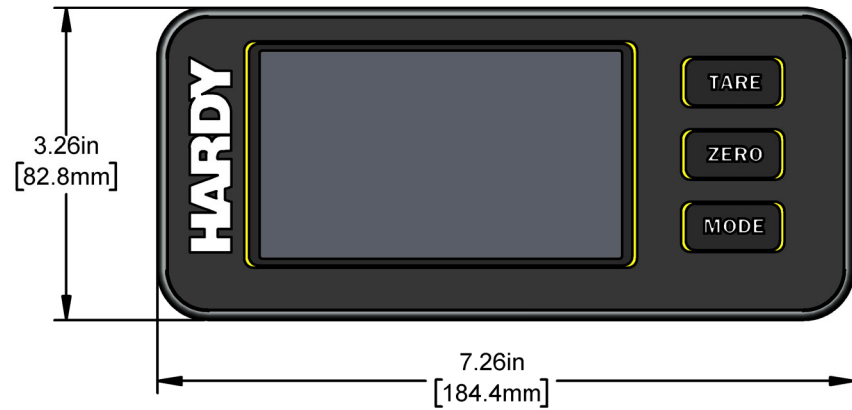


ITEM	QTY	PART NUMBER	DESCRIPTION	COMMENTS														
		0584-0112	INSTALLATION/INTERCONNECTION DIAGRAM, HI 6800 SERIES	SEE NOTES														
PARTS LIST																		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: N/A DECIMALS: .XX = ±.03 .XXX = ±.010 ANGLES ±0°, 30°			<table border="1"> <tr> <th colspan="2">CONTRACT NO.</th> </tr> <tr> <th colspan="2">APPROVALS</th> </tr> <tr> <td>DRAWN V. CHULA</td> <td>DATE 10-09-23</td> </tr> <tr> <td>CHECKED J. IBARRA</td> <td>DATE 10-09-23</td> </tr> <tr> <td>APPROVED V. CHULA</td> <td>DATE 10-09-23</td> </tr> <tr> <td>ISSUED V. CHULA</td> <td>DATE 10-09-23</td> </tr> <tr> <td>PRODUCTION</td> <td>DATE</td> </tr> </table>		CONTRACT NO.		APPROVALS		DRAWN V. CHULA	DATE 10-09-23	CHECKED J. IBARRA	DATE 10-09-23	APPROVED V. CHULA	DATE 10-09-23	ISSUED V. CHULA	DATE 10-09-23	PRODUCTION	DATE
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PRODUCTION	DATE																	
MATERIAL																		
FINISH																		
DO NOT SCALE DRAWING			<b>INSTALLATION/INTERCONNECTION DIAGRAM, HI 6800 SERIES</b>															
SIZE	FSCM	DRAWING NO.	REV.															
D	21316	0584-0112	A															
FILE NAME: 0584-112A1.SLDDRW			SCALE: NONE	SHEET 1 OF 4														

# HI 6800 SERIES INSTRUMENT WITH OPTION "PM1" FRONT PANEL DISPLAY

WHEN ORDERED, MOUNTING OPTION "PM1" OPTION KIT INCLUDES THE FOLLOWING COMPONENTS:

1. MODEL HI 6130 - 4.3 INCH TOUCH SCREEN LCD DISPLAY (SEALING GASKET INCLUDED); QTY 1.
2. 4.00 INCH [101.6mm] LONG 10 POSITION DISPLAY INTERFACE RIBBON CABLE; QTY 1.
3. M4 X 0.7 X 115mm LONG THREADED RODS, QTY 4.
4. M4 FLAT WASHERS; QTY 4.
5. M4 X 0.7 HEX NUTS; QTY 4.
6. M4 X 0.7 THREADED THUMB NUTS; QTY 4.
7. DISPLAY MOUNTING HOLE DRILL TEMPLATE; QTY 1.
8. OPTION KIT "PM1" WILL BE SHIPPED SEPARATE WITH INSTRUMENT.
9. SEE HARDY PROCESS SOLUTIONS WEB SITE FOR FURTHER INFORMATION.

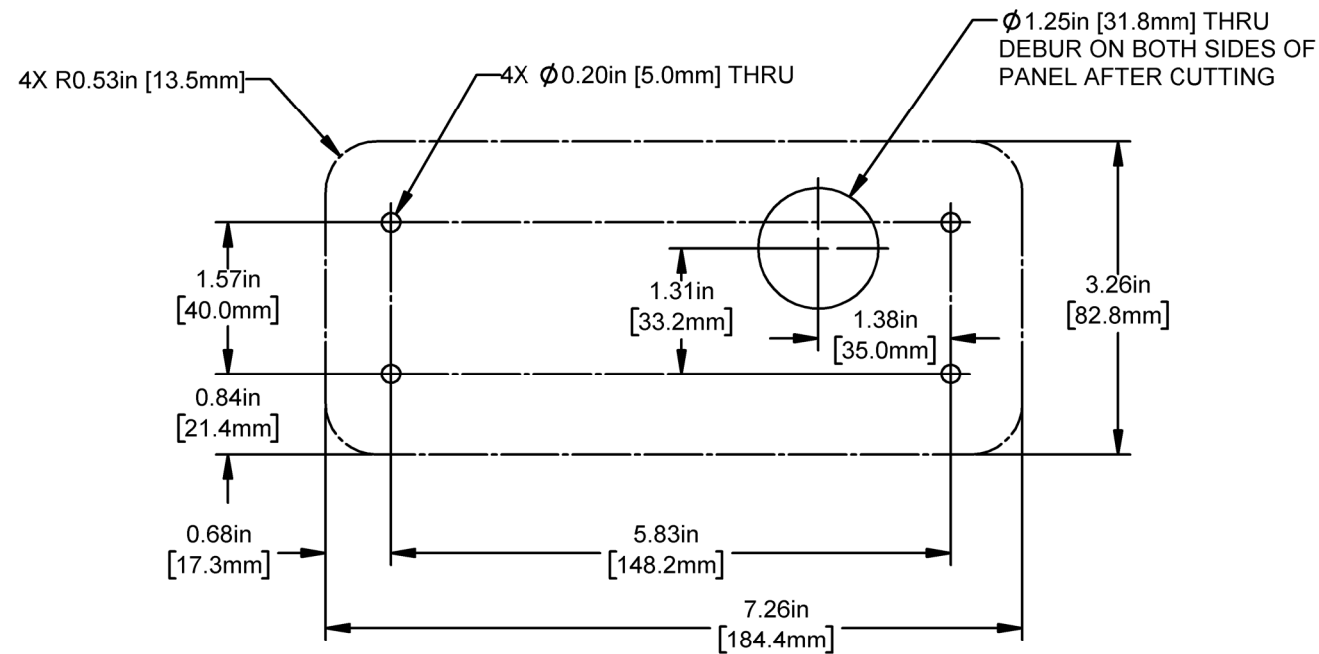


\*\* IF THE DISPLAY IS TO BE MOUNTED REMOTELY FROM THE INSTRUMENT, USE M4 X 0.7 THREADED SCREW LENGTH OF 0.300 INCH [7.62mm] MAXIMUM PLUS THE MOUNTING PANEL THICKNESS

## FRONT PANEL DISPLAY TERMINATIONS

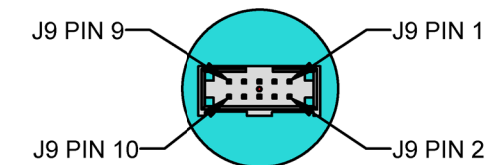
NOTES:

1. INPUT VOLTAGE RATING: 12-24 VDC, 1.4 WATTS MAXIMUM.
2. SEE USER'S GUIDE FOR ADDITIONAL INFORMATION ON FRONT PANEL DISPLAY TERMINATIONS. USER'S GUIDE IS LOCATED ON HARDY PROCESS SOLUTIONS WEB SITE.
3. CONNECTOR J9 UTILIZES A 4.00 INCH [101.6mm] LONG 10 POSITION DISPLAY INTERFACE RIBBON CABLE THAT IS SHIPPED WITH THE HI 6800 SERIES INSTRUMENT WHEN OPTION "PM1" IS ORDERED.



HI 6130 SERIES FRONT PANEL DISPLAY MOUNTING DIMENSIONS  
(VIEWED FROM THE FRONT OF THE INSTRUMENT)

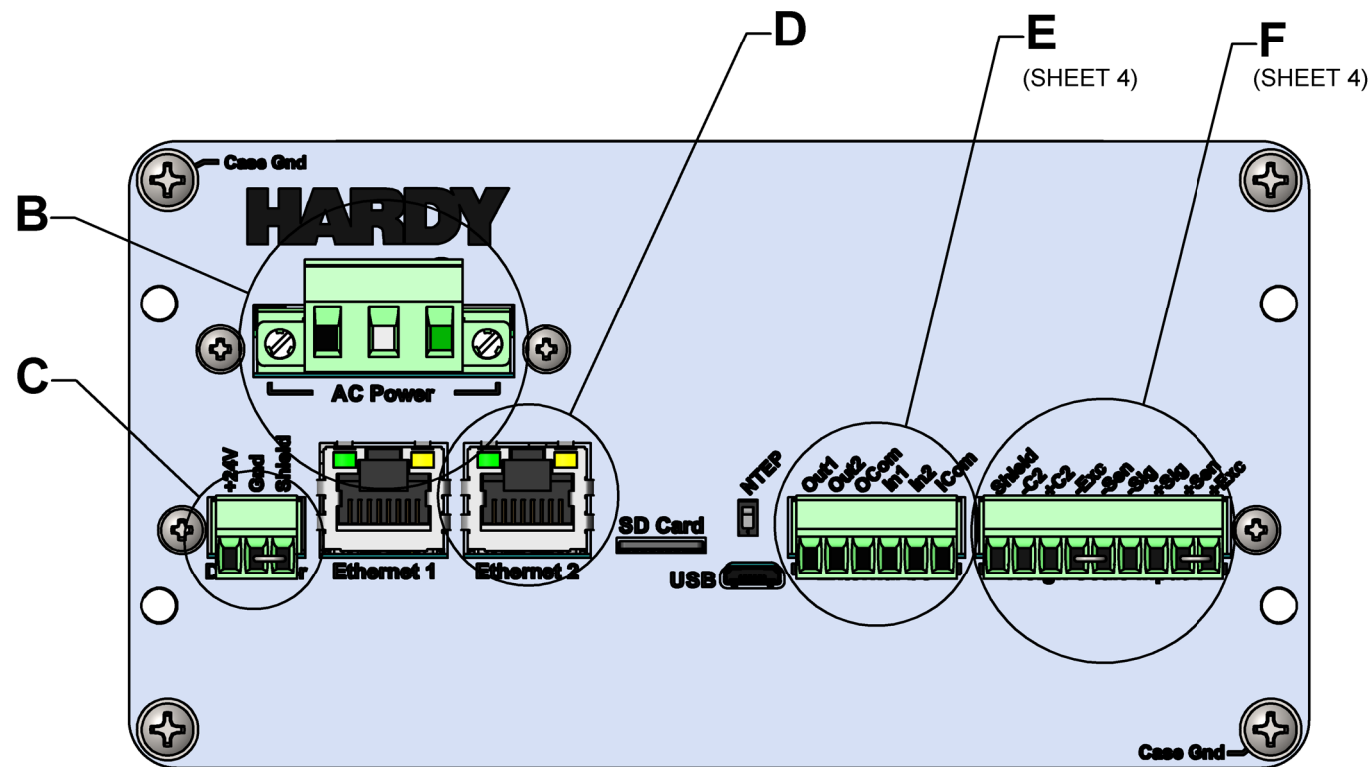
J9 CONNECTION CHART	
PIN NUMBER	SIGNAL NAME
1	V+
2	V+
3	CHASSIS GND
4	TXD-
5	TXD+
6	NO CONNECTION
7	RXD+
8	RXD-
9	GND
10	GND
RIBBON CABLE CONNECTOR	



VIEW A  
SCALE 2 : 1

<b>HARDY</b> PROCESS SOLUTIONS			
TITLE INSTALLATION/INTERCONNECTION DIAGRAM, HI 6800 SERIES			
SIZE	FSCM	DRAWING NO.	REV.
D	21316	0584-0112	A
FILE NAME: 0584-112A1.SLDDRW		SCALE: NONE	SHEET 2 OF 4

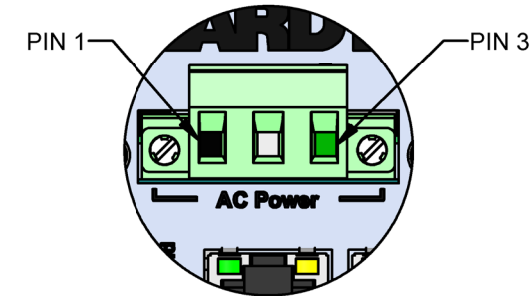
# HI 6800 SERIES INSTRUMENT USER INTERFACE PANEL CONNECTIONS



## OPTION "AC" POWER INPUT TERMINATIONS

**NOTES:**

1. INPUT VOLTAGE RANGE: 100-240 VAC, 50/60 Hz, 0.75-0.50 AMP.
2. TERMINAL BLOCK WIRE SIZE RANGE: 12 AWG MAXIMUM / 24 AWG MINIMUM.
3. WIRE TEMPERATURE RATING TO BE 90° C.
4. WIRE TIGHTENING TORQUE: 5.0 LB-IN / 7.0 LB-IN [0.56 Nm / 0.79 Nm].
5. USE COPPER CONDUCTORS ONLY.



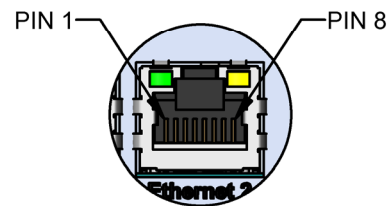
**VIEW B**  
SCALE 2 : 1

CONNECTION CHART	
PIN NUMBER	SIGNAL NAME
1	LINE
2	NEUTRAL
3	EARTH

## ETHERNET TERMINATIONS (BOTH PORTS)

**NOTES:**

1. SEE USER'S GUIDE FOR ADDITIONAL INFORMATION ON ETHERNET TERMINATIONS. USER'S GUIDE IS LOCATED ON HARDY PROCESS SOLUTIONS WEB SITE.
2. CONNECTOR TYPE: RJ-45, 8 PIN; QTY 2.



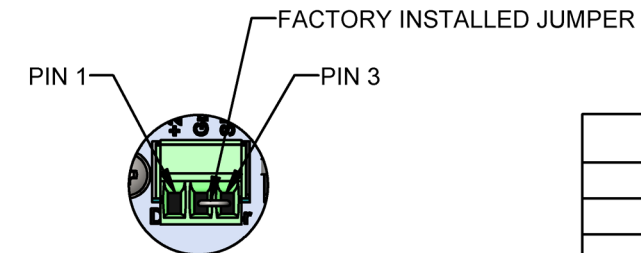
**VIEW D**  
SCALE 2 : 1

CONNECTION CHART	
PIN NUMBER	SIGNAL NAME
1	TX+
2	TX-
3	V+
4	GND
5	GND
6	V+
7	RX+
8	RX-

## OPTION "DC" POWER INPUT TERMINATIONS

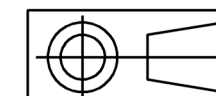
**NOTES:**

1. CLASS 2 INPUT VOLTAGE RANGE [24 VDC NOMINAL]: 12-24 VDC, 3 WATTS NOMINAL.
2. TERMINAL BLOCK WIRE SIZE RANGE: 16 AWG MAXIMUM / 28 AWG MINIMUM.
3. WIRE TEMPERATURE RATING TO BE 90° C.
4. WIRE TIGHTENING TORQUE: 2.0 LB-IN / 2.2 LB-IN [0.23 Nm / 0.25 Nm].
5. USE COPPER CONDUCTORS ONLY.



**VIEW C**  
SCALE 2 : 1

CONNECTION CHART	
PIN NUMBER	SIGNAL NAME
1	+24V IN
2	GND
3	SHIELD



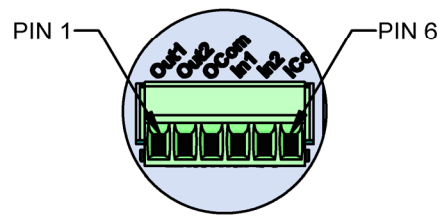
<b>HARDY</b> PROCESS SOLUTIONS			
TITLE INSTALLATION/INTERCONNECTION DIAGRAM, HI 6800 SERIES			
SIZE <b>D</b>	FSCM <b>21316</b>	DRAWING NO. <b>0584-0112</b>	REV. <b>A</b>
FILE NAME: 0584-112A1.SLDDRW		SCALE: NONE	SHEET 3 OF 4

# HI 6800 SERIES INSTRUMENT USER INTERFACE PANEL CONNECTIONS

## DIGITAL I/O TERMINATIONS

**NOTES:**

1. SEE USER'S GUIDE FOR ADDITIONAL INFORMATION ON DIGITAL I/O TERMINATIONS. USER'S GUIDE IS LOCATED ON HARDY PROCESS SOLUTIONS WEB SITE.
2. DO NOT BUNDLE DIGITAL I/O WIRING WITH POWER WIRING, RELAY CABLE OR ANY OTHER HIGH ENERGY CABLES.
3. TERMINAL BLOCK WIRE SIZE RANGE: 16 AWG MAXIMUM / 28 AWG MINIMUM.
4. WIRE TEMPERATURE RATING TO BE 90° C.
5. WIRE TIGHTENING TORQUE: 2.0 LB-IN / 2.2 LB-IN [0.23 Nm / 0.25 Nm].
6. USE COPPER CONDUCTORS ONLY.



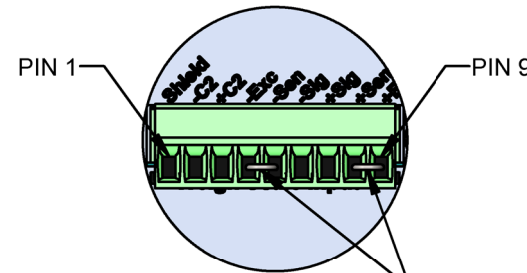
**VIEW E**  
SCALE 2 : 1

CONNECTION CHART	
PIN NUMBER	SIGNAL NAME
1	OUT1
2	OUT2
3	OUT COMMON
4	IN1
5	IN2
6	IN COMMON

## WEIGH SCALE INPUT TERMINATIONS

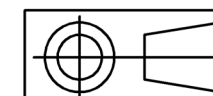
**NOTES:**

1. SEE USER'S GUIDE FOR ADDITIONAL INFORMATION ON LOAD CELL CONNECTIONS. USER'S GUIDE IS LOCATED ON HARDY PROCESS SOLUTIONS WEB SITE.
2. IF CONDUIT IS USED, DO NOT RUN LOAD CELL CABLE PARALLEL TO, OR IN SAME CONDUIT WITH, POWER WIRING, RELAY CABLE OR OTHER HIGH ENERGY CABLES.
3. FACTORY INSTALLED JUMPERS TO REMAIN IN PLACE ONLY FOR FOUR WIRE NON C2 LOAD CELL CONNECTION. JUMPERS TO BE REMOVED FOR SIX WIRE NON C2 OR EIGHT WIRE C2 LOAD CELL CONNECTIONS. EXCITATION AND SENSE WIRES TO BE CONNECTED TOGETHER IN JUNCTION BOX.
4. TERMINAL BLOCK WIRE SIZE RANGE: 16 AWG MAXIMUM / 28 AWG MINIMUM.
5. WIRE TEMPERATURE RATING TO BE 90° C.
6. WIRE TIGHTENING TORQUE: 2.0 LB-IN / 2.2 LB-IN [0.23 Nm / 0.25 Nm].
7. USE COPPER CONDUCTORS ONLY.



**VIEW F**  
SCALE 2 : 1

CONNECTION CHART	
PIN NUMBER	SIGNAL NAME
1	SHIELD
2	-C2
3	+C2
4	-EXC
5	-SEN
6	-SIG
7	+SIG
8	+SEN
9	+EXC



<b>HARDY</b> PROCESS SOLUTIONS			
TITLE INSTALLATION/INTERCONNECTION DIAGRAM, HI 6800 SERIES			
SIZE	FSCM	DRAWING NO.	REV.
D	21316	0584-0112	A
FILE NAME: 0584-112A1.SLDDRW		SCALE: NONE	SHEET 4 OF 4