



Model 880RA-N4X Model 880RS-N4X Graphic Remote Display



Operator's Installation and Instruction Manual

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www.detcon.com

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1.0 Introduction

The Detcon Model 880 Remote Display unit is specifically designed to serve as a Remote Monitor for the Model 880 PLC Control Units. The Model 880RA-N4X is designed to work with the Model 880 Analog versions, and the Model 880RS-N4X is designed to work with the Model 880 Serial versions PLC Graphic Controllers. The NEMA 4X rated enclosure is rain tight and suitable for outdoor locations in electrically non-hazardous environments. The unit features a color touch screen that graphically displays the status of each device attached to the Model 880 PLC Control Unit.

2.0 System Configuration

2.1 Touch Panel Graphic Display

The Model 880 is equipped with a graphic display panel (Figure 1) that is prompted to display information such as the operational status of each monitoring device, alarm output readings, and record alarm incidents to a USB Drive.

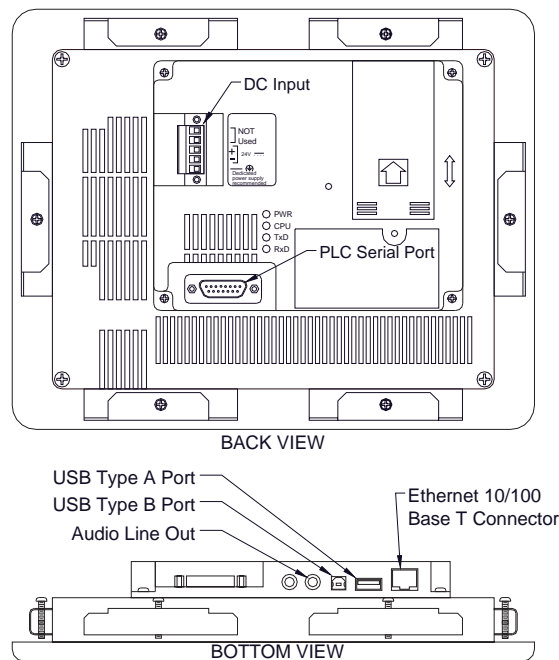


Figure 1 Back of Touch Panel Display

The touch panel acts as a master interface to the remotely located PLC. As such, the touch panel polls the PLC, which, in turn, polls the field devices for information. A wand is used on the screen to operate system controls and/or move to additional screens.

A USB port (Figure 1) is located on the back of the display at the bottom. When a USB Drive (USB Memory Stick) is installed, the display will automatically log to the drive where any alarms and/or faults have been recorded by the PLC. The information is logged into a folder named **‘Log’** and named **‘Alarm_yymmdd.txt’** where **yy** is the year, **mm** is the month, and **dd** is the day. The files are written in text format.

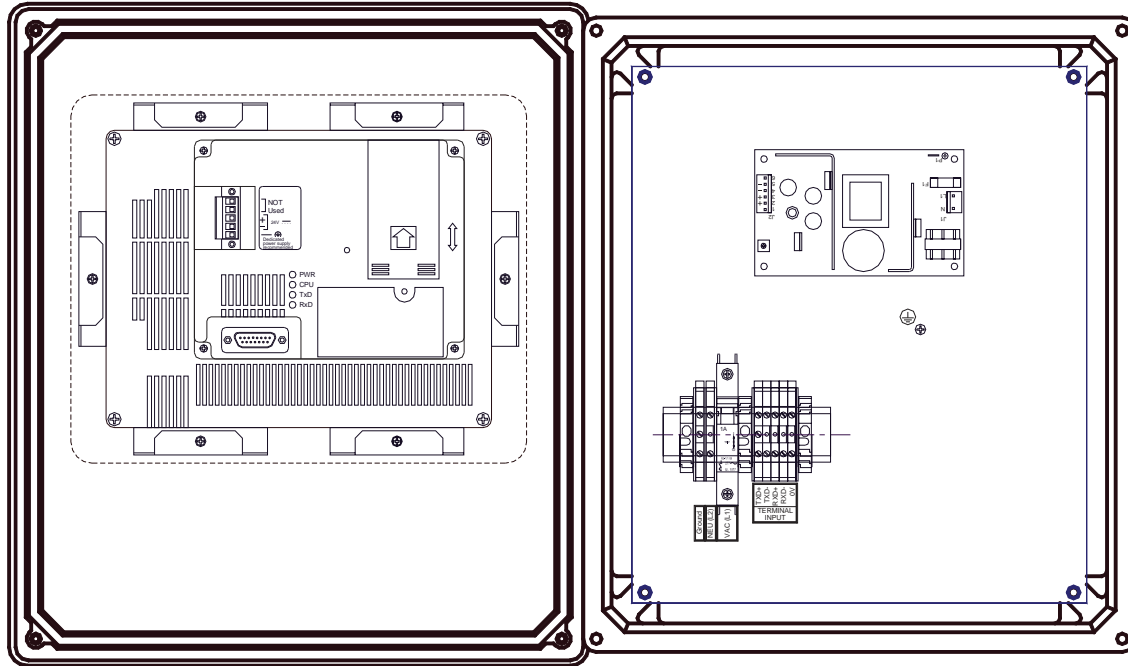


Figure 2 Unit overview

2.2 Specifications

Inputs

RS-422

Outputs

None

Power Input

100-240VAC 50~60Hz

Power Consumption

24W

Display

8" inch diagonal Graphic Backlit LCD Touch screen display

Electrical Classification

NEMA 4 Enclosure

Dimensions

14"W x 16"H x 7"D

Operating Temperature Range

0°C to +45°C

Warranty

One year

3.0 Installation

The Detcon Model 880 Remote Display enclosure is rated NEMA 4X, which is rain tight and suitable for outdoor locations in electrically non-hazardous environments. The enclosure is equipped with four (4) wall-mounting brackets for easy wall mount installations. Care should be given to prevent sharp objects from colliding with the touch screen. The screen can be cleaned with a mild detergent and a lint free cloth. Never use an abrasive cleaner on the display.

1. Securely mount the 880 Enclosure in accordance with Figure 3.

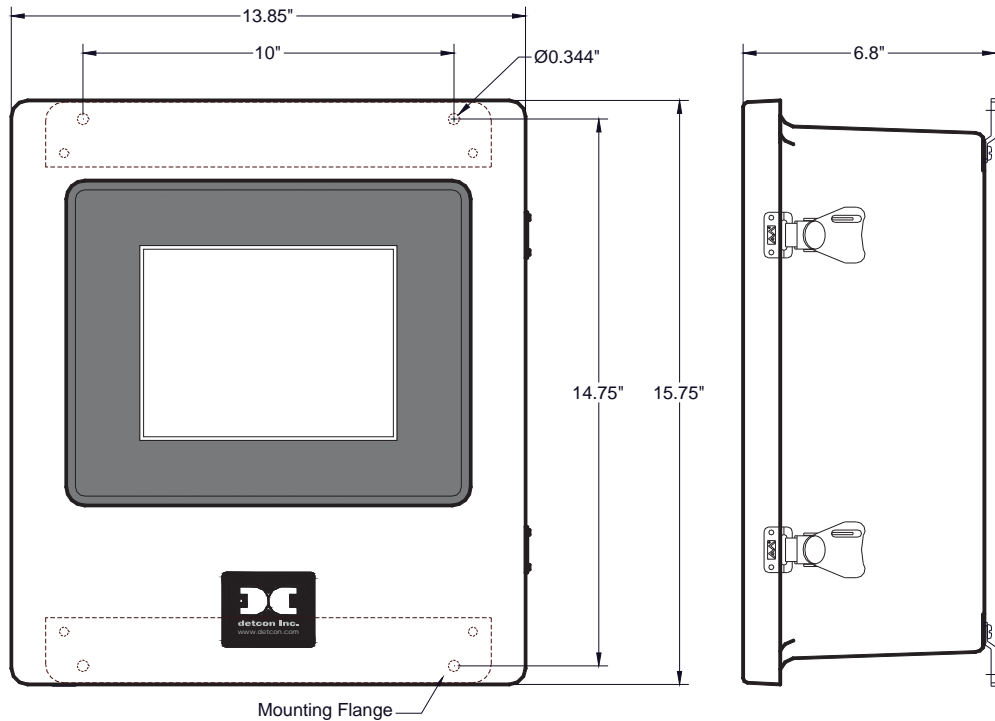


Figure 3 Dimensional Overview

2. Run the serial cable between the Main 880 enclosure and the 880 Remote Display enclosures.
3. Connect the RS-422 Serial communications cable to the terminal blocks labeled “REMOTE OUTPUT” in the Main 880 enclosure (Figure 4).

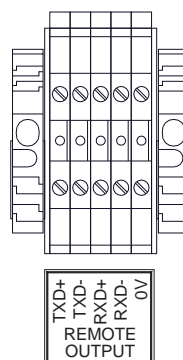


Figure 4 Main 880 terminal blocks and connections

4. Connect the RS-422 Serial communications cable to the input terminal blocks inside the 880 Remote Display labeled “TERMINAL INPUT” as shown in (Figure 5).

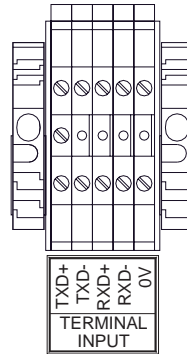


Figure 5 Remote RS-422 connections

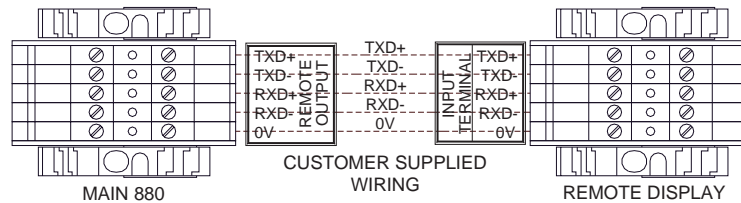


Figure 6 Remote Interconnect Wiring

5. Connect 110-220VAC input to the Fuse Block labeled “VAC (L1)” in the lower left of the enclosure. Connect Neutral (or L2) to terminal labeled “NEU (L2)” and Ground to the Green/Yellow terminal labeled “GROUND” (Figure 7). The power supply is able to accept AC input voltages from 100 to 240 volts at 50 or 60Hz.

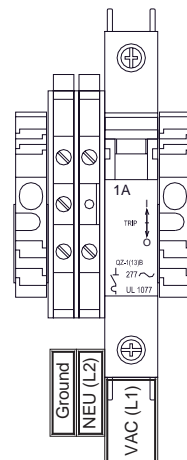


Figure 7 Typical Input Power connections

Upon completion of all field wiring, apply power to the Main 880 and the 880 Remote Display. The unit will go through a brief initialization and display the “Main Screen” (Figure 15). The “AC” box on the display should be green to show that AC is attached to the unit. The “USB” box gray to indicate no USB drive is attached.

4.0 Setup

The 880 Remote Display incorporates a Touch Screen Graphic Display Panel. A Stylus ‘Wand’ is provided for use with the touch screen display. Care should be given to prevent sharp objects from colliding with the touch screen display as damage to the display may cause the unit to become inoperative. The screen can be cleaned with a mild detergent and a lint free cloth. Never use an abrasive cleaner on the display.

4.1 User interface

When an alphanumeric or text string is called for, the unit will display an alphanumeric keyboard for the user to input information (Figure 8). Information typed by the user will be displayed in the box just above the keyboard. The keyboard is fully functional allowing the user to input spaces, special characters (*, &, etc.), and make changes between lowercase characters and capitals by using the CAP key. Once the user has input the correct information, the ‘Enter’ key will transfer the complete string to the appropriate ‘Box’ on the screen and the alphanumeric keyboard will disappear.



Figure 8 Input Keyboard

When a number is called for, the unit will display a keypad for the user to input the appropriate numeric response (Figure 9). Information entered by the user will be displayed in the box to the left of the keypad. Once the user has input the correct information, the ‘Enter’ key will transfer the numeric value to the appropriate ‘Box’ on the screen and the keypad will disappear. Many keypad entries display a minimum, maximum, and current box. These boxes show the lower limit, upper limit, and current value of the number being entered. Numeric entries outside of these restrictions will not be accepted.

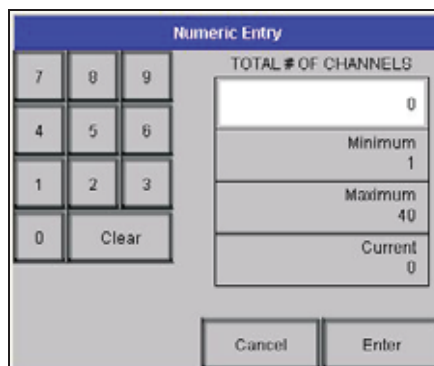


Figure 9 Input Keypad

The display screen also contains a number of “buttons”. These “buttons” act as toggle switches that change state when activated by the wand. These buttons will indicate the change in state by some obvious means such as a change in color, name, or both (i.e., when changing the state of an alarm from ascending to descending the button will change from a blue button displaying “ASC” to a gray button displaying “DES”).

4.2 Clock and Screen Adjustments

Adjustments to the clock and screen are made entering the display’s Setup Screens. Only the Clock and Screen adjustments are discussed here. Changing other aspects of the Display Touch Panel may cause the system to operate improperly and should not be attempted.

Access the display’s System Setup Screens by touching the upper left corner of the touch panel with the wand and holding it there for 3-5 seconds. A warning box will appear (Figure 10). If no action is taken within 60 seconds, the system will return to the Main Screen. To return to the Main Screen select “Exit”.



WARNING: Selecting OK will stop the PLC driver; therefore, all communication between the touch panel and the Main 880 PLC will cease.



Figure 10 Warning Screen

To enter the display’s Setup Screen, select “OK”. The Main Menu will be displayed (Figure 11).

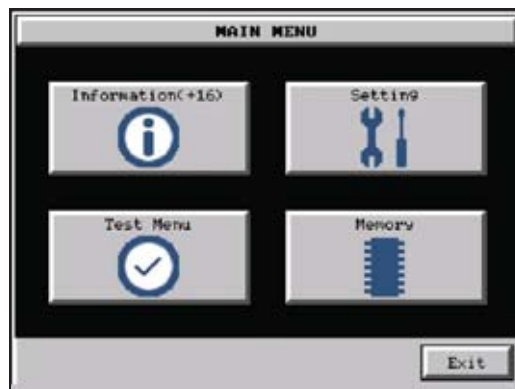


Figure 11 Main Menu

From the Main Menu select the “Setting” button to enter the “Setting” Screen (Figure 12).

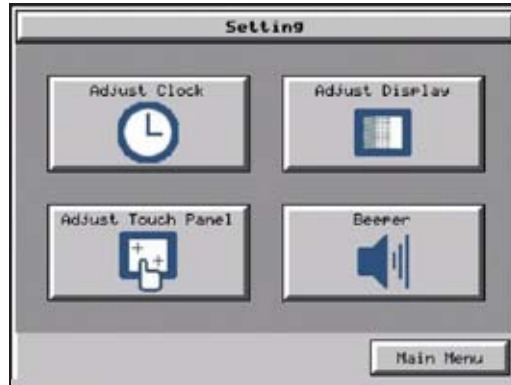


Figure 12 Screen Settings

From the “Setting” Screen, select the “Adjust Clock” button to adjust the clock (Figure 13) or the “Adjust Display” button to adjust the Display Screen (Figure 14).

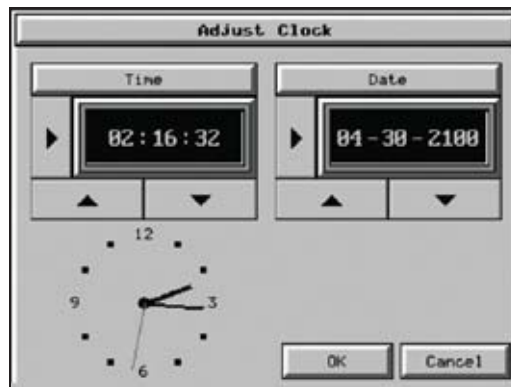


Figure 13 Clock Adjust Screen

To adjust the Time and Date use the arrow keys. Once the correct time and date have been set, select “OK” to close the screen. Select “Main Menu” to exit the “Setting” screen, and select “Exit” to exit the Setup screens.

To adjust the display use the arrow keys. Once the display has been adjusted, select “OK” to close the screen. Select “Main Menu” to exit the “Setting” screen, and select “Exit” to exit the Setup screens.

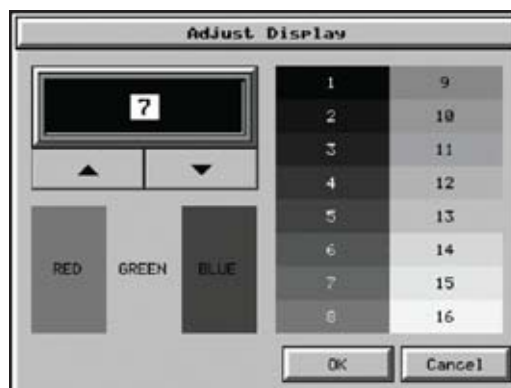


Figure 14 Adjust Display Screen

4.3 880 Remote Display Setup

The remote display must be setup to match the main 880. The screens are duplicates of the Main 880; therefore, the setup is accomplished in much the same manner as the main unit. If the 880 Remote Display is not set up to match the Main 880, the resulting displays will be inconsistent and erroneous.

- 1) From the “Main Screen” (Figure 15), enter the “System Configuration Screen” by touching the “System Configuration” box with the wand.
- 2) The display will prompt for a password to enter the 880 “System Configuration Screen”. The default password is “1234”. Enter the password in the Pop-Up Screen and press enter to continue. This will open the “System Configuration Screen” (Figure 16 – Analog, Figure 17 - Serial).



Figure 15 Main Screen

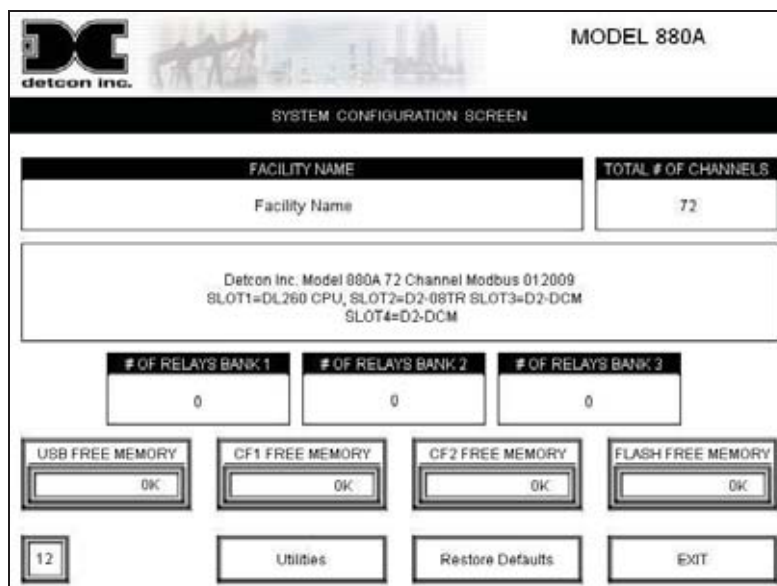


Figure 16 Analog Configuration Screen

NOTE: The System Configuration Screens differ only slightly between the Analog and Serial units.

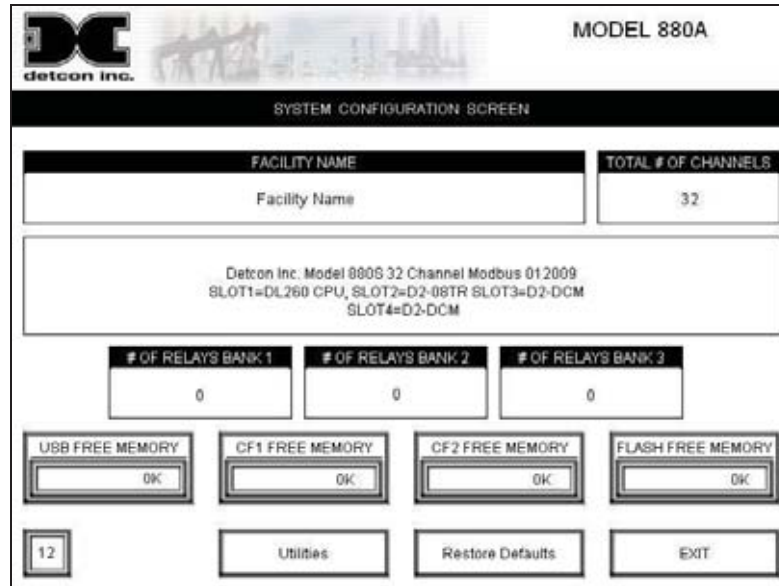


Figure 17 Serial Configuration Screen

- Use the wand to select the “FACILITY NAME” box. A keyboard will appear to allow input of the facility name (Figure 18). The facility name can be any alphanumeric string of no more than 40 characters. After the facility name has been entered, use the ‘ENTER’ key to transfer the string to the “System Configuration Screen”.



Figure 18 Inputting the Facility Name

- Select the “TOTAL # OF CHANNELS” Box and input the number of channels that are attached to the Main 880. This number must match the number entered in the Main 880.

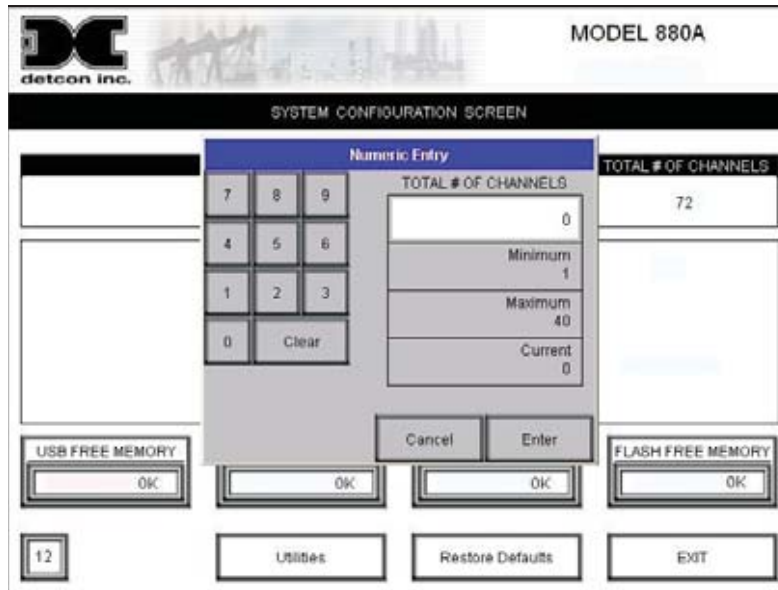


Figure 19 Inputting the number of channels

- 5) Select the “EXIT” box to exit the “System Configuration Screen” and return to the “Main Screen”.
- 6) The “Channel Description”, “Gas Type”, and the range decimal point must be setup in the Remote Display to match the information used to setup the Main 880. Sensor Range and Alarm information should not be altered at the Remote Display. (This information is transferred over from the Main 880). Using the wand to select a channel from the “Main Screen” will open that channels corresponding “Channel X Details Screen” (Figure 20).

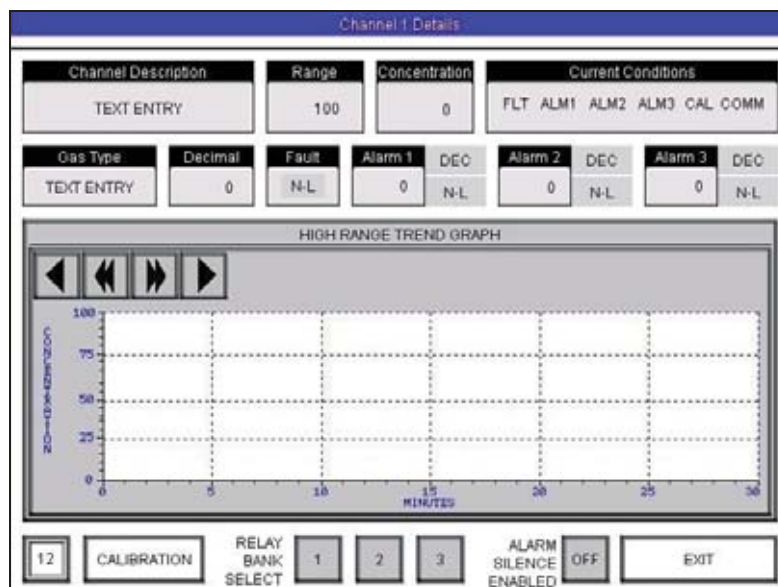


Figure 20 Channel Detail Screen

- a) Select “Channel Description”. The keyboard will appear, allowing the input of the Channel Tag Name, or a brief description of the sensor, up to 20 characters maximum. The “Channel Description” here must match the “Channel Description” entered at the Main 880.

- b) Select “Gas Type”, and input the gas type of the sensor. (i.e., H2S, LEL, CO2, etc.) Up to 10 characters maximum. The “Gas Type” entered here must match the “Gas Type” entered at the Main 880.
 - c) The Range of the sensor is transferred by the Main 880 and should not be changed in the Remote Display. However, the decimal point must be set for the range to be correctly displayed. Therefore ranges of 10 for a unit of 10ppm or 10% will be displayed as 100, likewise entries of 5 for 5ppm or 5% will be displayed as 500. To correctly place the decimal point in the entry, select the “Decimal Place” box and enter the decimal point placement. (i.e., a “Range” entry of 100 with a “Decimal Place” of 1 provides a range of 10.0, 10ppm or 10%. Likewise, a “Range” entry of 500 with a “Decimal Place” of 2 provides a range of 5.00, 5ppm or 5%.)
- 7) Proceed through all channels, setting each channel’s “Channel Description” and “Gas Type” to that setup in the Main 880. When all channels have been correctly set-up the unit should be ready for normal operation.

5.0 System Operation

The touch screen display serves as the graphic user interface to the system. Maneuvering through the system screens and accessing data fields is accomplished by touching the wand to the appropriate area, box, button, or key on the screen. The provided “wand” should be the only instrument used to activate the screen as other instruments may cause damage to the screen.

5.1 Main Screen

The main screen is the default screen of the unit (Figure 21). The screen displays the first 8 channels, channel descriptions, current readings, gas type, and sensor status for each channel. If the status of a sensor is such that the sensor is in an alarm condition, the corresponding “FLT”, “ALM1”, “ALM2”, “ALM3”, or “COM” will blink to signify that condition. Touching a channel number (Ch-X) will open the corresponding channels “Channel X Details Screen”. This screen will provide more information on the selected channel.

Near the top left of the screen, just below the Detcon Logo, there will be 2 to 9 selection buttons (Labeled “1-8,” “9-16,” “17-24,” etc.) dependent on the total number of channels set up in the “System Configuration Screen.” These buttons represent the pages that display the associated 8 channels; up to page 9 (Channels 65-72). Selecting any of these buttons with the wand will open the corresponding page to display those corresponding channels. These pages are all duplicates of the main page, with the exception of the channels being displayed.



Figure 21 The Main Screen

Each channel is displayed as a separate line item on the main screen. Each channel has its own “Channel Detail Screen”. To open a channels detail screen touch the appropriate channel with the wand, this will open the associated channels detail screen (Section 5.2).

A row of boxes is located at the bottom of the screen. The second box displays the time and date.

The “AC” box is green when the unit is running on applied AC or if applicable the Auxiliary 24VDC Input.

“USB Out” displays the status of the USB port on the back of the display. When a USB Drive is not installed, the button will be gray and display “USB Out”. When a USB Drive (USB Memory stick) is installed, the unit

will go through an initialization of the drive and the “USB Out” button will change to green, displaying “USB Eject”. To eject the USB Drive, touch the button with the wand. When the button turns gray and displays “USB Out” it is safe to remove the USB Drive from the port.

“Reset” will clear alarms that have been set as latching after the alarm condition has passed. This will only work when alarms have been set as “Latching”, and only after the alarm condition has been cleared.

“Alarm History” is a select button that will open the “Alarm History Screen” (Section 5.3).

“System Configuration” is a select button that opens the “System Configuration” Screen (Section 4.3).

5.2 Channel X Details Screen

When selected, each channel will open its own detail screen (Figure 22). This screen provides a graphic representation of the last 30 minutes of the sensor’s activity. The display allows the user to move forward or backward in the graphic to display activity before or after the displayed time using the arrow keys in the upper left of the graphic display.

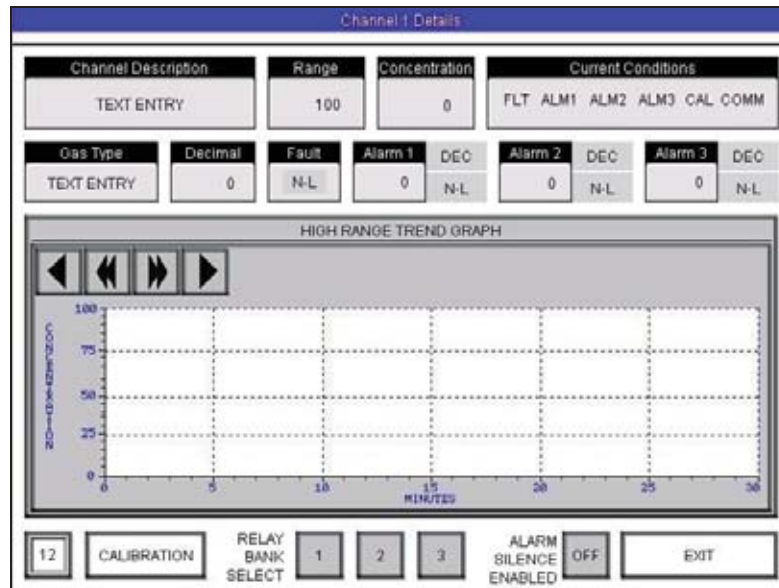


Figure 22 Channel Details Screen

When the sensor goes into a fault or alarm condition the “Current Conditions” box will highlight and blink the associated fault(s) or alarm(s). Each fault or alarm has a different color for ease in dissociating the condition. These conditions will remain highlighted and blinking until the conditions to correct them are met. I.E., a ‘CAL’ fault will not clear until the sensor returns to normal operation and, if set to non-latching and ascending, Alarm 1 will not clear until the “Concentration” falls below the set “Alarm 1 Level.”

5.3 Alarm History Screen

Alarm History			Total of 64 Alarms
Entry No	Alarm No	Message	Confirm
1	1	ALARM1 CH 1 ON	
2	82	ALARM2 CH 1 OFF	
3	2	ALARM1 CH 1 OFF	
4	1	ALARM1 CH 1 ON	
5	2	ALARM1 CH 1 OFF	
6	81	ALARM2 CH 1 ON	
7	162	FAULT CH 1 OFF	
8	1	ALARM1 CH 1 ON	
9	161	FAULT CH 1 ON	
10	2	ALARM1 CH 1 OFF	
11	1	ALARM1 CH 1 ON	
12	2	ALARM1 CH 1 OFF	
13	1	ALARM1 CH 1 ON	
14	240	FAULT CH 40 OFF	
15	238	FAULT CH 39 OFF	
16	236	FAULT CH 38 OFF	
17	234	FAULT CH 37 OFF	
18	232	FAULT CH 36 OFF	
19	230	FAULT CH 35 OFF	
20	228	FAULT CH 34 OFF	
21	226	FAULT CH 33 OFF	

Alarm
Page Up
Page
Line Up
Line Down
Details
Clear All
Exit

Figure 23 Alarm History Screen

When alarms are initiated, the unit stores information about these alarms into memory. If a USB Drive is installed in the back of the display, this information is written onto the drive for permanent storage (USB Drive sold separately). The information can also be viewed on the “Alarm History Screen” by using the wand to select the “Alarm History” button on the Main Screen.

The Alarm History Screen displays Fault and Alarm events throughout operation of the unit (Figure 23). Navigation buttons located at the bottom of the page allow the user to view all logged data. The view can be changed from Alarm History to Alarm Count, with a detail button that allows viewing more information on each event recorded.

6.0 Spare Parts

Recommended spare parts list:

Detcon Part #	Description
360-205420-024	24VDC 40Watt Power supply
347-SSP000-00A	Stylus 'Wand' for Touch Screen Display

Include Detcon part number when ordering spare parts.

The Touch Screen Graphic Display is programmed to match the Main 880 Unit. For display replacements, please contact Detcon.

7.0 Warranty

All warranties are FOB the Detcon factory. Should any product fail to perform in accordance with published specifications within the warranty period, return it freight pre-paid to Detcon Inc., 3200 Research Forest Drive Suite A-1, The Woodlands, Texas 77381 for necessary repairs.

Detcon Inc., as manufacturer, warrants each new PLC Graphic Control Unit to be free from defects in material and workmanship under intended normal use for a period of one year. The warranty period begins on the date of shipment to the original purchaser and ends one year thereafter.

Appendix A

Revision History

Revision	Date	Changes made
0.0	03/26/09	Original Release.
0.1	09/25/09	Change to Mounting Flanges and update figures.

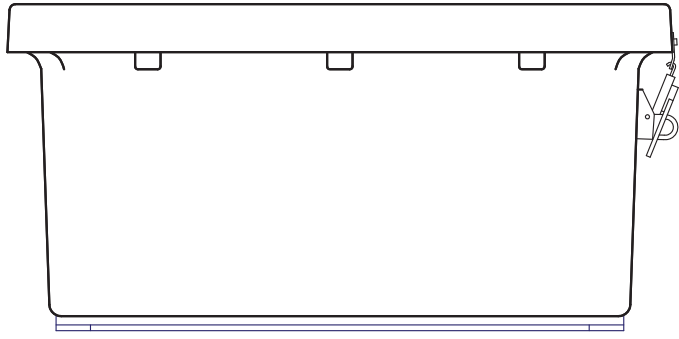
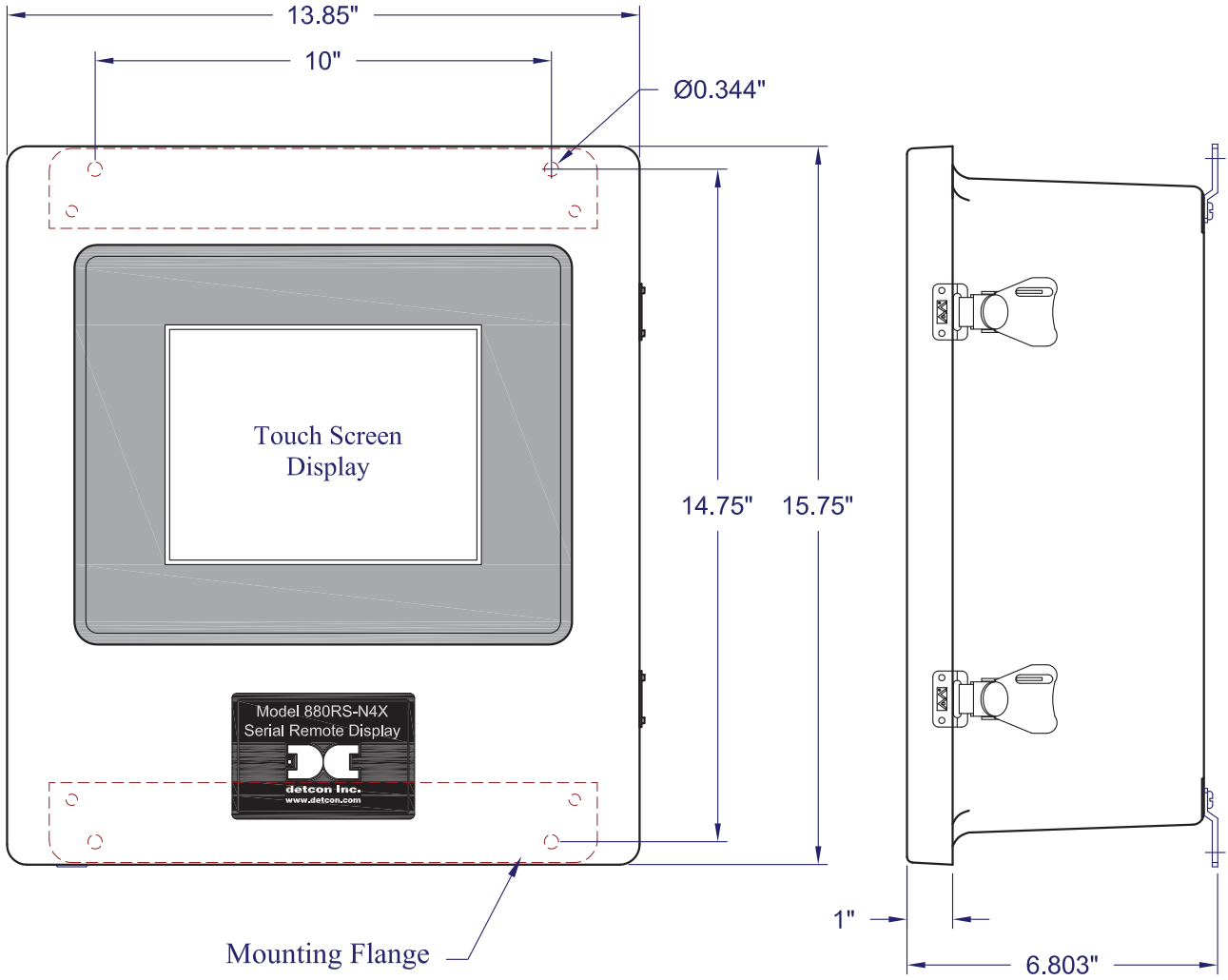
Appendix A

Drawings and Diagrams

1. Remote Display Dimensional Overview
2. Remote Display With Z-Purge Dimensional Overview
3. Remote Display Component Layout
4. Remote Display with Z-Purge Component Layout
5. Remote Display Wiring Diagram
6. Remote Display with Z-Purge Wiring Diagram
7. 880 to Remote Display wiring

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REV	0.1	3292	V	VN
REV		DRAWING NO.	SIZE	JOB NO.



NOTES:

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PROJECT NO.	NA	
SERIAL NO.	NA	
PLANT:	NA	

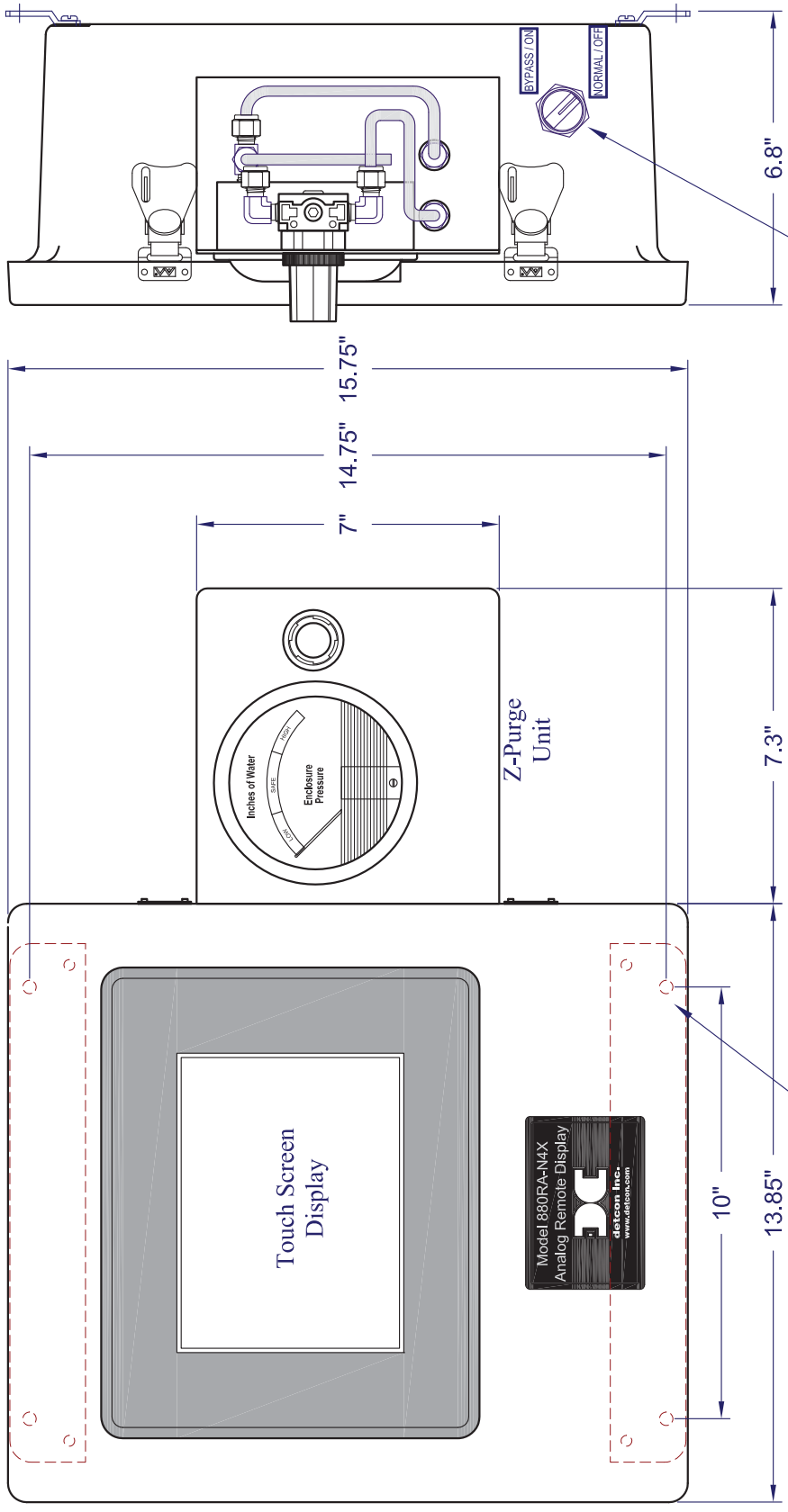
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0.1	09/11/09	Change Mounting Hardware to Flanges	RH	LU	BM	3292	UPDATE
0	02/11/09	ISSUED FOR APPROVAL	RH	LU	BM	3292	RELEASE

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CLIENT:	NA	904-880RX0-000
PROJECT:	NA	880-RD-N4 Dimensional
DRAWN BY:	R HUTSKO	SALES ORDER NO. NA
FIRST ISSUE:	02/11/09	DRAWING NO. 3292-1
		SCALE: NTS
		DETCON PROPOSAL # NA
		SIZE: A
		REV: 0.1

REVISION HISTORY

REF. DWGS

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Z-Purge Bypass Switch

Mounting Flange

NOTES:

PO. NO.	NA
REV. NO.	NA
PROJECT NO.	NA
SERIAL NO.	NA
PLANT:	NA

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REV	DATE	DESCRIPTION	CHKD	APPD	DWG #	SUBJECT
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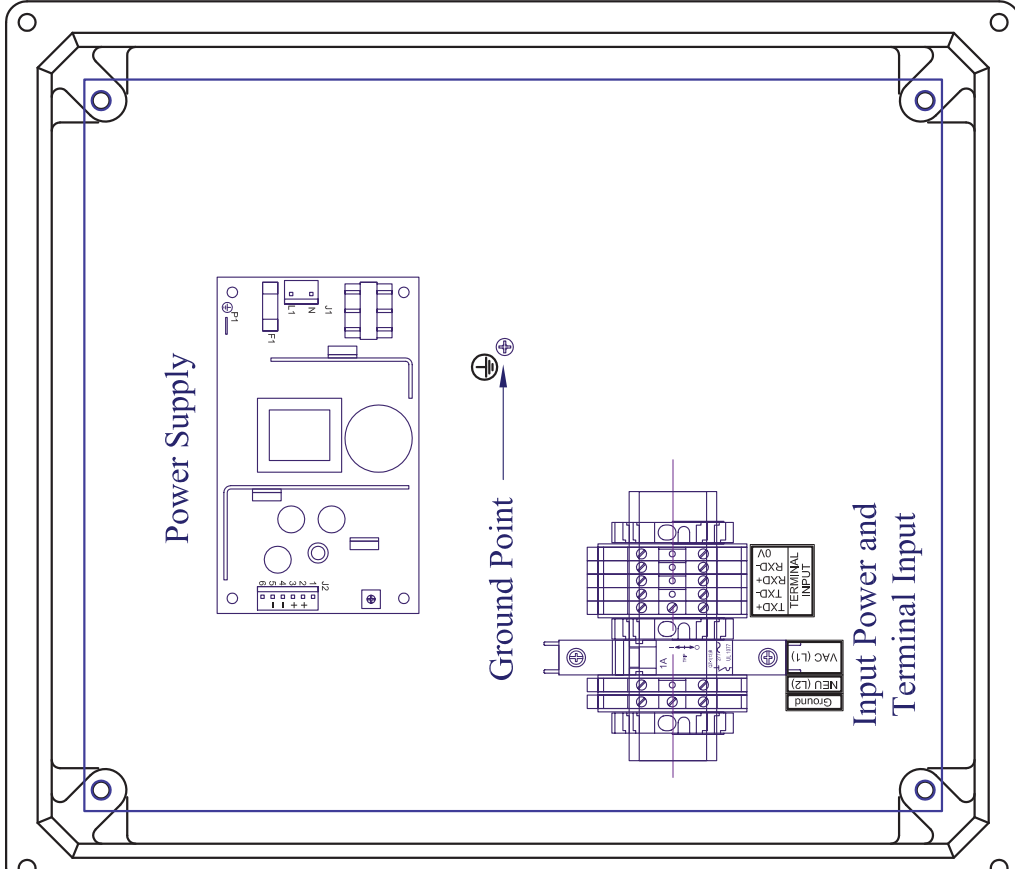
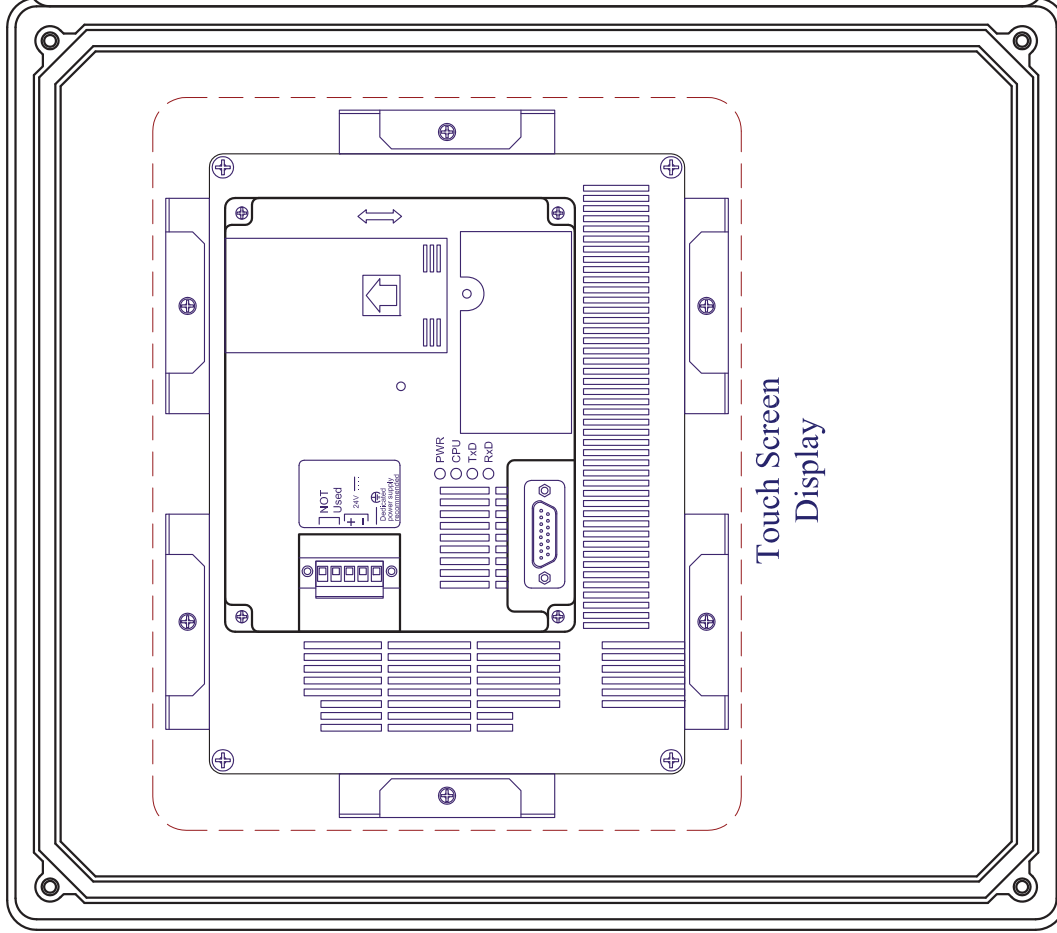
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UPDATE:	02/11/09
RELEASE:	02/11/09
REF. DWGS	

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CLIENT:	NA
PROJECT:	NA
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RELEASE:	02/11/09
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REVISION HISTORY

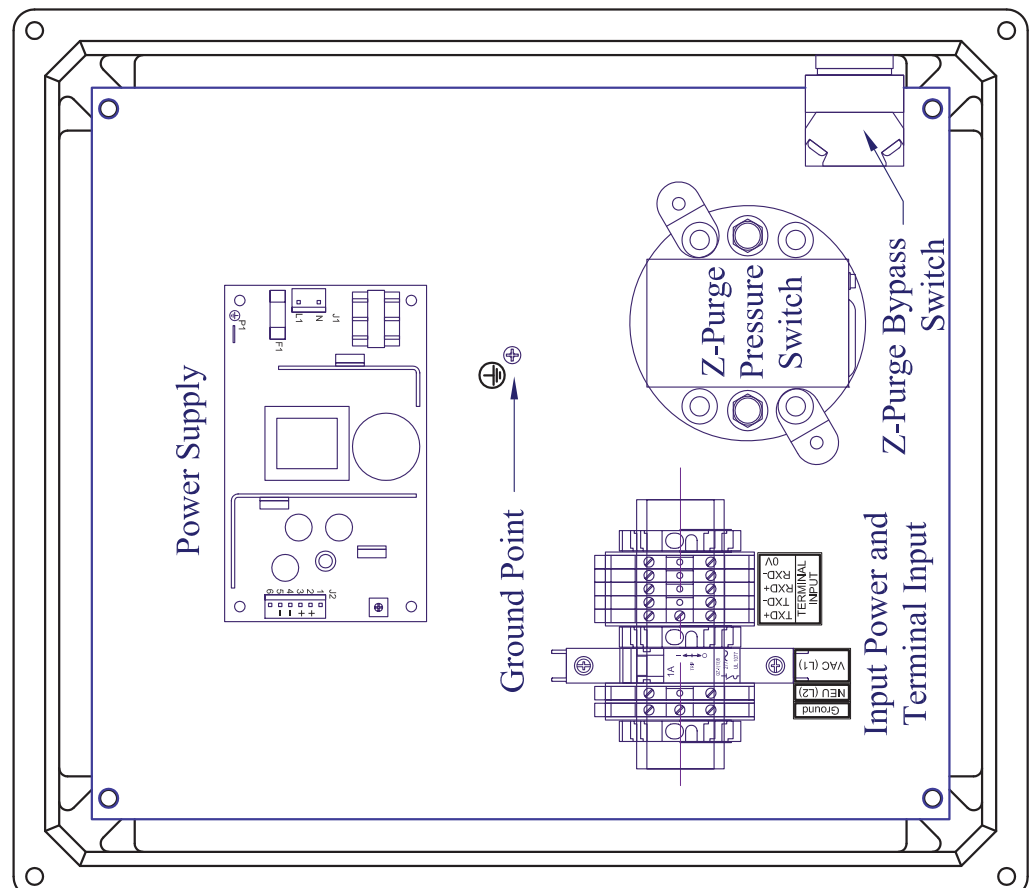
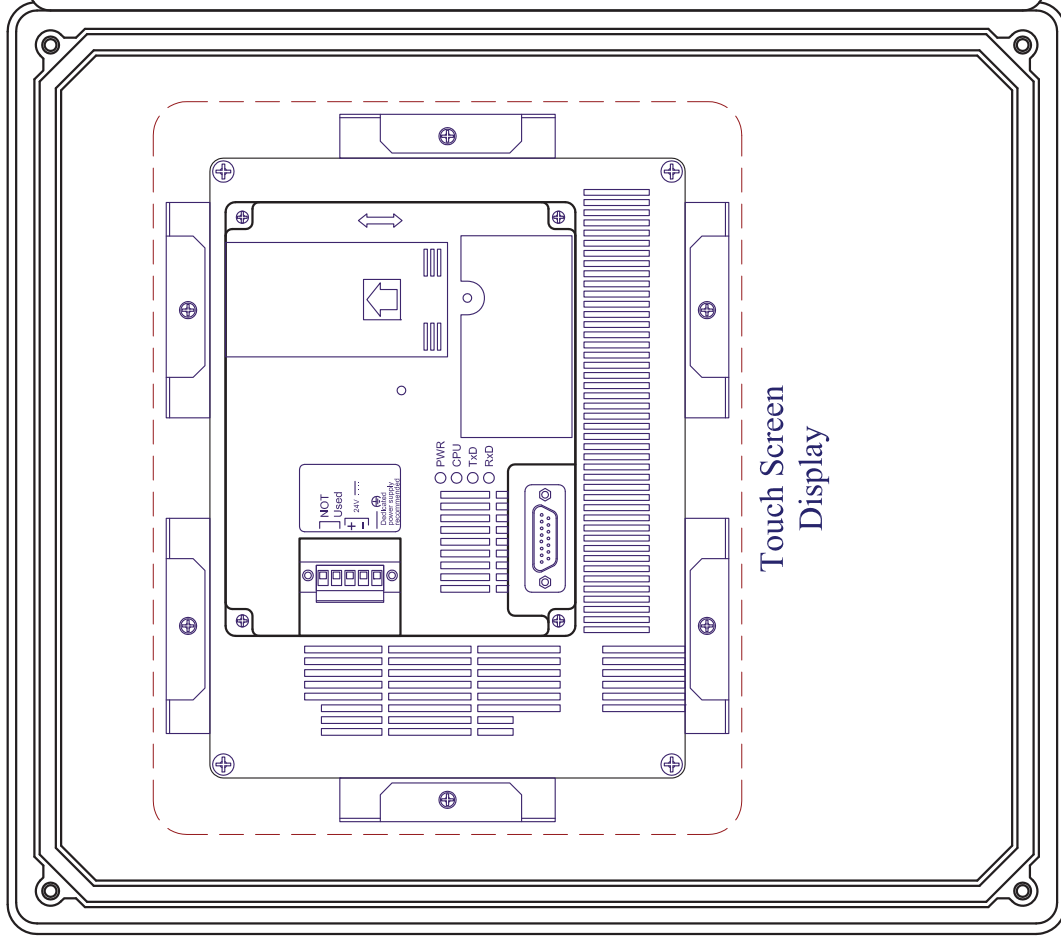
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CLIENT: NA
 PROJECT: NA
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 SALES ORDER NO: Unit Overview
 SCALE: NTS
 DRAWN BY: R HUTSKO
 CHECKED BY: NA
 FIRST ISSUE: 02/11/09
 DETCON PROPOSAL #: NA
 SIZE: A
 REV: 0.1

REV	DATE	DESCRIPTION	DRN	CHKD	APPD	DWG #	SUBJECT	RELEASE	UPDATE
01	09/11/09	Change Mounting Hardware to Flanges	REH	LU	BM	3292	R HUTSKO	NTS	NA
0	02/11/09	ISSUED FOR APPROVAL	REH	LU	BM	3292	R HUTSKO	NTS	NA

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REV	0.1	DRAWING NO.	3292	SIZE	A	UNIT	NA
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NOTES:

P.O. NO.	NA
REQ. NO.	NA
PROJECT NO.	NA
SERIAL NO.	NA
PLANT:	NA

REV	DATE	DESCRIPTION	DRN	CHKD	APPD	DWG #	SUBJECT	RELEASE	UPDATE
01	09/1/09	Change Mounting Hardware to Flanges	REH	LU	BM	3292	R HUTSKO	NTS	NA
0	02/1/09	ISSUED FOR APPROVAL	REH	LU	BM	3292	R HUTSKO	NTS	NA

REVISION HISTORY

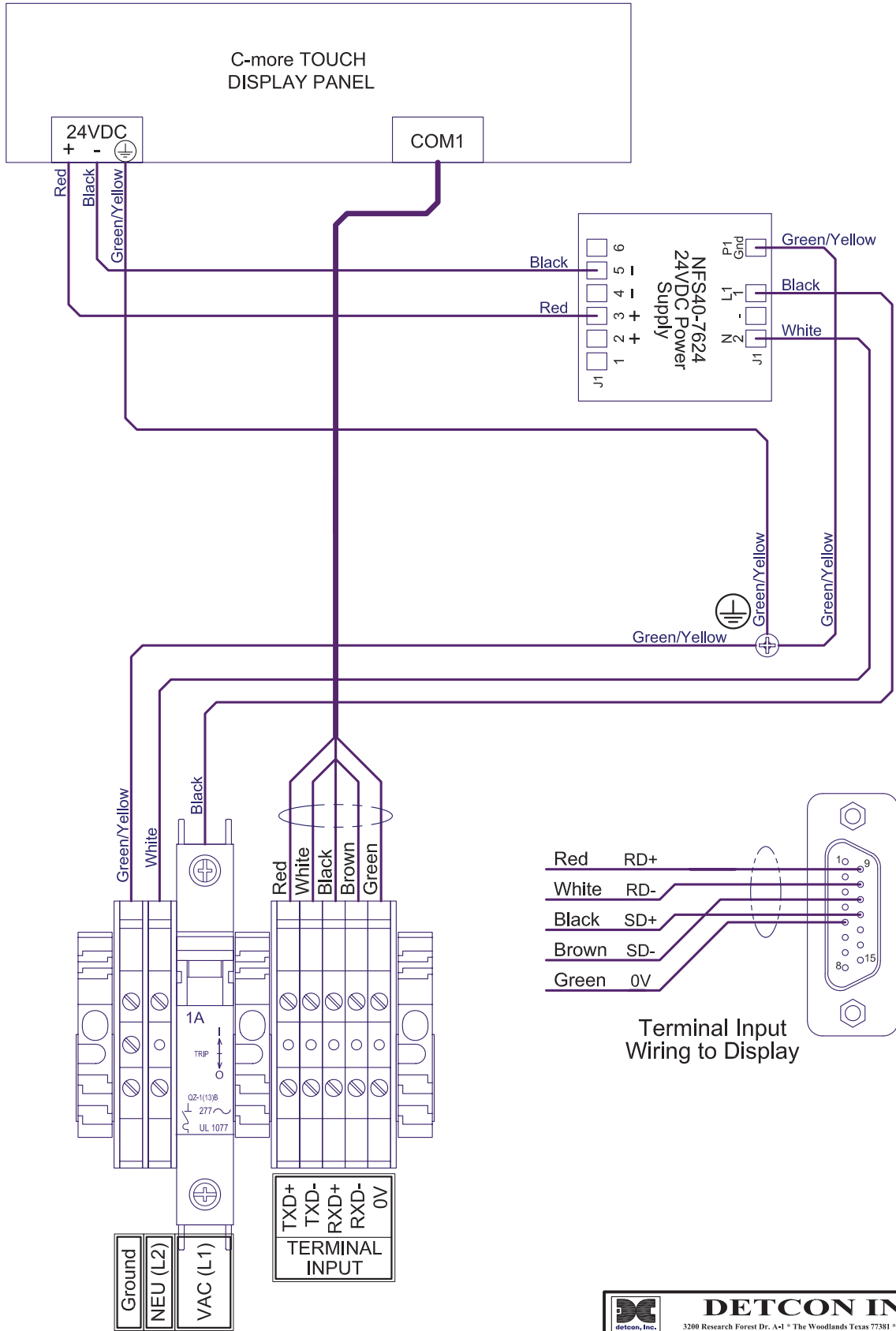
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 3306 Research Forest Dr., Apt # The Woodlands Texas 77381 • www.detcon.com

CLIENT: NA PROJECT: NA
 SALES ORDER NO.: 904-880RX0-000
 DRAWN BY: R HUTSKO SCALE: NTS
 UNIT OVERVIEW
 880-RD-N4 w/Z-Purge
 FIRST ISSUE: 02/11/09
 DETCON PROPOSAL # NA
 SIZE: A
 REV: 0.1

REF.	DWGS	02/11/09	NA
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NOTES:


P.O. NO.	NA
REQ. NO.	NA
PROJECT NO.	NA
SERIAL NO.	NA
PLANT:	NA

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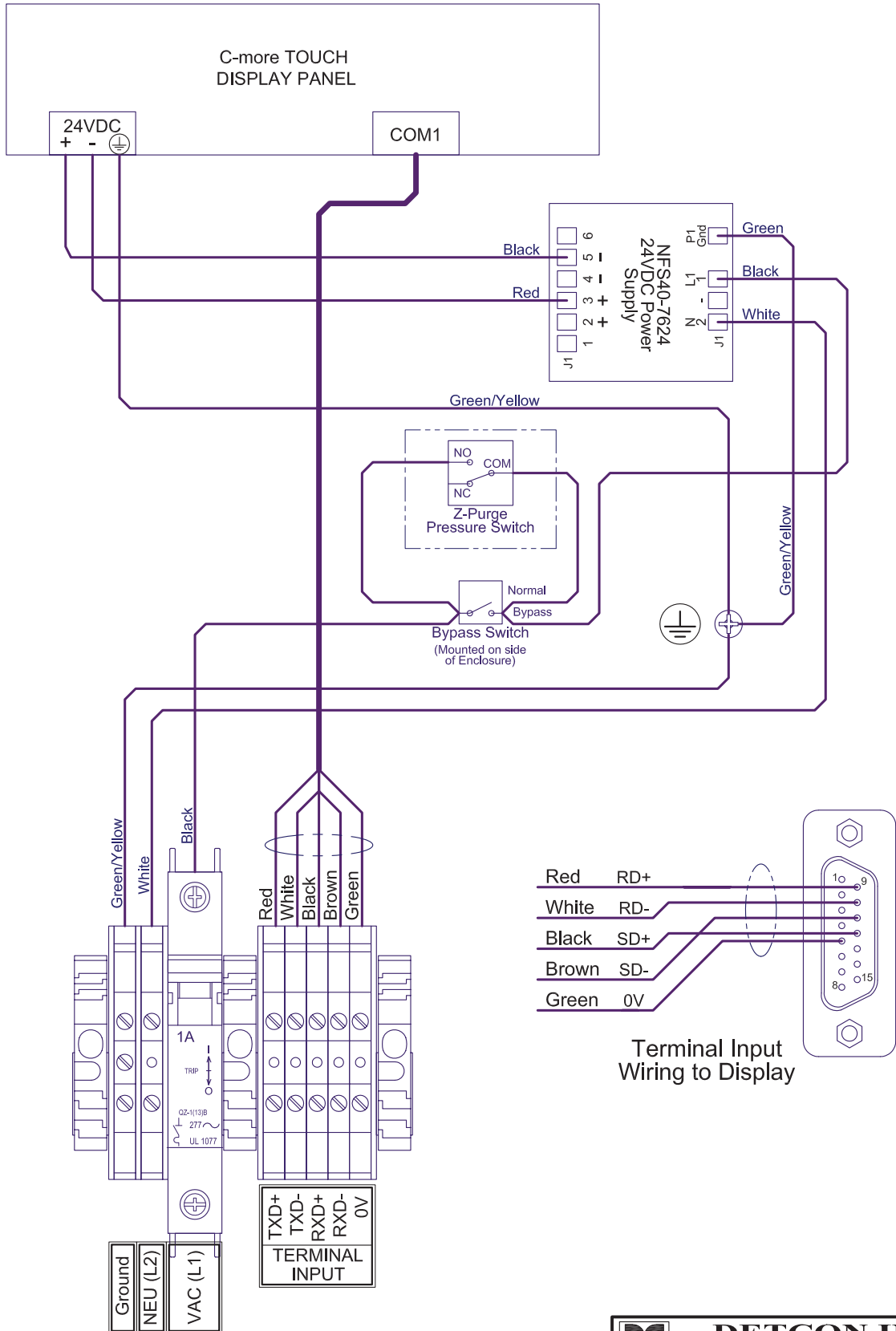
REV	DATE	DESCRIPTION	DRN	CHKD	APPD	DWG #	SUBJECT
0.1	09/11/09	Change Mounting Hardware to Flanges	RH	LU	BM	3292	UPDATE
0	02/11/09	ISSUED FOR APPROVAL	RH	LU	BM	3292	RELEASE

REVISION HISTORY

REF. DWGS

 DETCON INC. <small>3200 Research Forest Dr. A-1 • The Woodlands Texas 77381 • www.detcon.com</small>		CLIENT: NA PROJECT: NA DRAWN BY: R HUTSKO FIRST ISSUE: 02/11/09		904-880RX0-000 880-RD-N4 Wiring Diagram SCALE: NTS SALES ORDER NO.: NA DETCON PROPOSAL #: NA		DRAWING NO.: 3292-3 SIZE: A REV: 0.1	
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P.O. NO.	NA
REQ. NO.	NA
PROJECT NO.	NA
SERIAL NO.	NA
PLANT:	NA

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Rev	DATE	DESCRIPTION	DRN	CHKD	APPD	DWG #	SUBJECT
0.1	09/11/09	Change Mounting Hardware to Flanges	RH	LU	BM	3292	UPDATE
0	02/11/09	ISSUED FOR APPROVAL	RH	LU	BM	3292	RELEASE

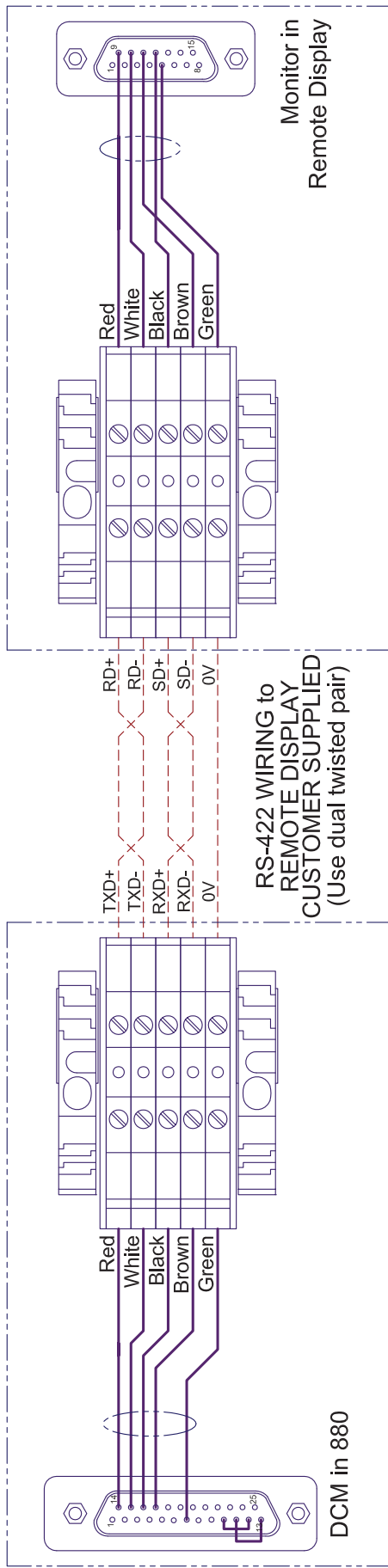
REVISION HISTORY

REF. DWGS

 DETCON INC. <small>3200 Research Forest Dr. A-1 • The Woodlands Texas 77381 • www.detcon.com</small>		
CLIENT:	NA	904-880RX0-000
PROJECT:	NA	880-RD-N4 w/Z-Purge
		Wiring Diagram
DRAWN BY:	R HUTSKO	SCALE: NTS
SUBJECT:	02/11/09	SALES ORDER NO. NA
FIRST ISSUE:	02/11/09	DETCON PROPOSAL # NA
DRAWING NO.	3292-3a	SIZE: A
		REV: 0.1

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REV	0.1	DRAWING NO.	3292	SIZE	A	QTY	NA
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NOTES:

P.O. NO.	NA
REQ. NO.	NA
PROJECT NO.	NA
SERIAL NO.	NA
PLANT:	NA

REV	DATE	DESCRIPTION	DRN	CHKD	APPD	SUBJECT
01	09/1/09	Change Mounting Hardware to Flanges	REH	LU	BM	3292
02	02/11/09	ISSUED FOR APPROVAL	REH	LU	BM	3292

REVISION HISTORY

REF. DWGS						
02/11/09	02/11/09	02/11/09	02/11/09	02/11/09	02/11/09	02/11/09

CLIENT:	NA	PROJECT:	NA
DRAWN BY:	R HUTSKO	SCALE:	NTS
SALES ORDER NO.:	NA	DRAWING NO.:	3292-3b
FIRST ISSUE:	02/11/09	DETCON PROPOSAL #:	NA
SIZE:	A	REV:	0.1

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880 to Remote Display Wiring

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