

Production Board

Installation Manual

Title Page

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1. Introduction

This document describes the installation of the Production Board display system.

2. Installation

2.1. Unpacking

Carefully remove the items from their package and store the packaging safely. After unpacking, inspect the contents for any damage that may have occurred during shipment. In the event of damage, refer to the Return of Equipment procedure section of this manual.

2.2. System Configuration

Mount the Production Boards securely, Module 1 above Module 2 and Module 3 above Module 4. Connect the cables as shown in the Figure below.

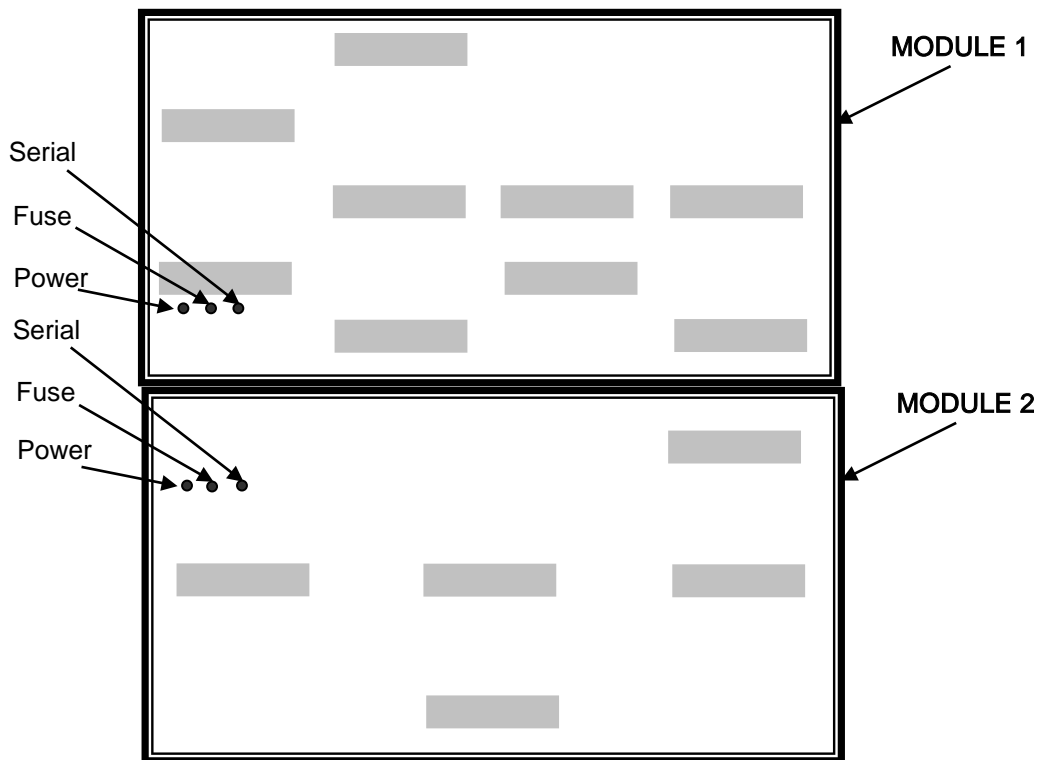


Figure 1 – System Configuration for Module 1 and Module 2.

2.3. Software

The system is operated using the *DUMB MODE* protocol.

3. Hardware Address

3.1. General

Each MODULE is addressed as follows:

- MODULE 1 = Address 21H
- MODULE 2 = Address 22H
- MODULE 3 = Address 23H
- MODULE 4 = Address 24H.

The figures below show the offsets used in the protocol for the individual fields on each MODULE.

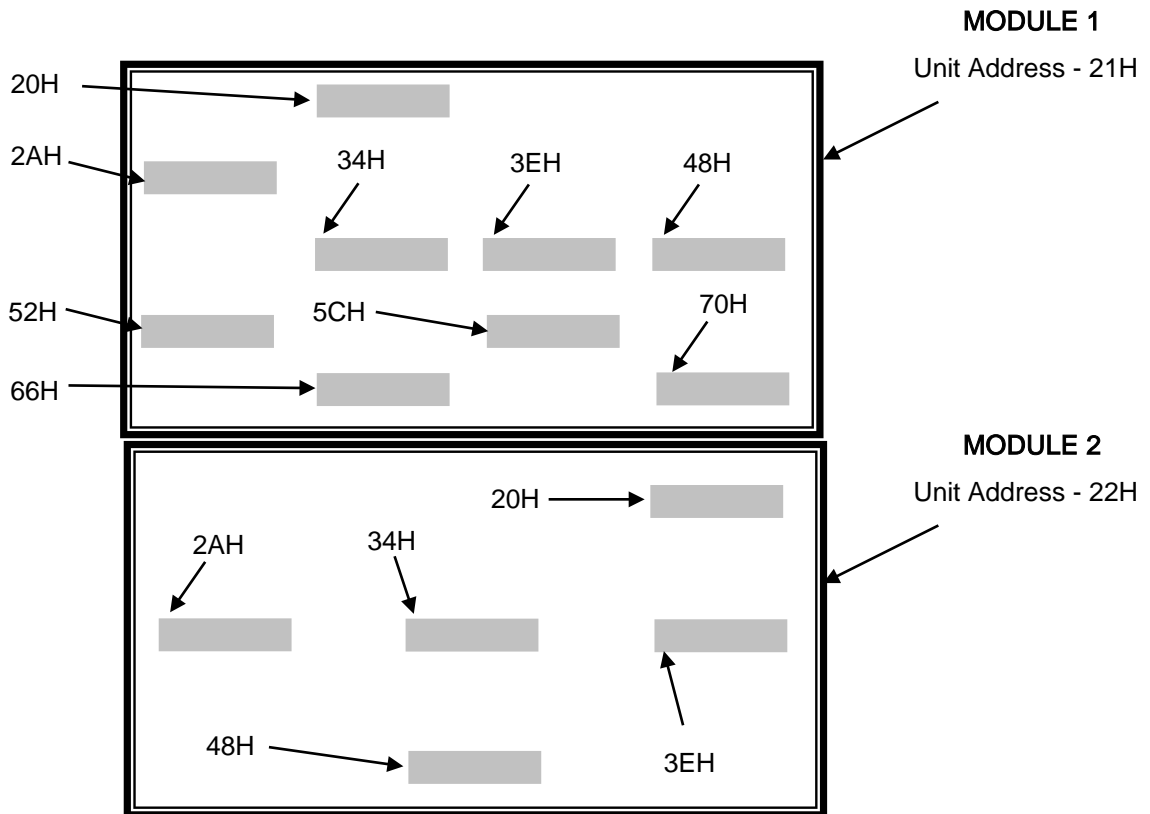


Figure 2 – Field Addresses for MODULE 1 and MODULE 2.

3.2. Fault Detection

Fault	Probable Cause	Action
Message is not displayed	The display is not switched on	Check that power leads are connected
Message is not displayed	Fuse is defective	Replace defective fuse
Message is not displayed	Logic board is defective	Replace defective Logic board
Part of Message is not displayed	LEDs are defective	Replace defective LEDs

Table 1 – Fault Detection.

4. Maintenance

Warning: Disconnect the power supply before you remove any display panels. Make sure work area is clean and clear of tools and miscellaneous items of equipment after maintenance.

4.1. Maintenance Instructions

4.1.1. Preventative Maintenance

Inspect the display for defects before each operation. Do a visual check for the following:

- Damaged or dirty Lens
- Defective LEDs

4.1.2. Corrective Maintenance

Replacing a defective LED:

1. Remove the side bracket and lens of the display unit
2. Loosen the attaching screws on the display panel
3. Disconnect wiring and remove the display panel
4. Remove solder from the rear of the defective LED
5. Replace the LED
6. Apply solder and wait to dry
7. Connect the wiring and attach the display panel
8. Slide in the lens and attach the side bracket.

Replacing a defective Logic Board:

1. Remove the side bracket and lens of the display unit
2. Loosen the attaching screws on the display panel
3. Disconnect wiring and remove the display panel
4. Remove the logic board by unscrewing the attaching nuts
5. Replace the logic board and connect all wiring
6. Slide in the lens and attach the side bracket.

Replacing a defective Fuse:

1. Open the Fuse holder at the side of the display
2. Replace the Fuse
3. Close the Fuse Holder.

Clean the display with a damp cloth and make sure the unit is watertight after all maintenance.

4.1.3. Special Measures following a Stoppage

If the display is out of service for a long period of time, carefully remove the display and store it in a cool dry place.

4.2. *Handling Equipment*

- One working platform
- Standard tool kit

4.3. *Special Tools*

There are no special tools required.

4.4. *Spare Parts*

For spare parts, contact your nearest Data Display Customer Service Department.

Make sure to quote the Data Display No. in the Product Specifications section of this Manual and the Serial No of the display.

4.5. Return of Equipment

Follow the procedures listed below when returning a display:

1. Disconnect all cables and carefully remove the display from the mounting
2. Pack the display in the original packing.
3. If the original container is not available, pack the display in a wooden carton. Use cardboard and polystyrene wedges to protect and cushion the display.
4. Mark carton(s) "THIS SIDE UP" , "THIS SIDE DOWN" and "FRAGILE" where appropriate.
5. Make sure to include with the display the following information:

NAME

ADDRESS

TELEPHONE NUMBER

SERIAL NUMBER OF DISPLAY

DESCRIPTION OF THE PROBLEM

(A short description is sufficient)

Contact your nearest Data Display Customer Service Department and a suitable collection date and time will be arranged.

5. Product Specifications

DATA DISPLAY No.	- DD11743
EPROM	- 50DUM96DSY - 90DUM96DSY
PROTOCOL	- DUMB MODE, Ver 1.0
BAUD RATE	- 9600
DATA FORMAT	- 8 bit, 1 stop bit, no parity
CHARACTER SET	- Extended ASCII set
FUSE VALUE	- 10 Amp
DIMENSIONS (LxHxD)	- 2500mm x 1215mm x 90mm