Dantel

Y2K
Compliant

Y2K FIRMWARE UPGRADE KITS

FOR DANTEL STATUS MONITORS
B17-49016-00
B17-49016-01

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About this Practice:

This practice has been reissued to:

• Reflect the revision change to E13-46001-03, 09, 39, and 43 Status Monitors.

Reissued Practices: Updated and new content can be identified by a banner in the right margin.

Issue date: March 1999

UPDATED

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CAUTION

• Install or remove modules from the shelf only when the power is off. If you install a module in the shelf with the power on, the internal circuitry may suffer damage and the product warranty will be void.

• Remove and install circuit boards only in a static-safe environment (use antistatic wrist straps, smocks, footwear, etc.).

• Keep circuit boards in their antistatic bags when they are not in use.

• Do not ship or store circuit boards near strong electrostatic, electromagnetic, magnetic, or radioactive fields.

• For more complete information on electrostatic discharge safety precautions, refer to Bellcore™ Technical Reference # TR-NWT-000870.

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ORDERING INFORMATION

NOTE: This section lists the different options available for this product. To order any of the available options, contact Dantel Inside Sales through our toll-free number, **1-800-432-6835.**

OPTION NUMBER	FEATURES
B17-49016-00	Y2K Firmware Upgrade Kit For 46001-03 and -09 Status Monitors
B17-49016-01	Y2K Firmware Upgrade Kit For 46001-39 and -43 Status Monitors

GENERAL DESCRIPTION

The following instructions are for upgrading the firmware on the General Purpose Processors (GPP) in the Status Monitors.

There are two different upgrade kits available for upgrading Dantel's Status Monitors.

♦ The B17-49016-00 is used for the 46001-03 and 46001-09 Status Monitors.

♦ The B17-49016-01 is used for the 46001-39 and 46001-43 Status Monitors.

Refer to Table A for items that make up the upgrade kits.

TABLE A - STATUS MONITOR UPGRADE KITS

PARTS	STATUS MONITOR UPGRADE KIT	
	B17-49016-00	B17-49016-01
EPROMS (2)	G82-00300-00 * G82-00300-01 *	G82-00283-00 * G82-00283-01 *
Subassembly Label	D80-00439-00	D80-00406-00
GPP Module Barcode	RMPQADE7AA	RMPQADD7AA
GPP Module Label	D11-46062-03	D11-46062-02
Status Monitor Front Panel Label (2)	E13-46001-03 ** E13-46001-09 **	E13-46001-39 ** E13-46001-43 **
Status Monitor Barcode Label (2)	RMMYAB9AAC ** RMMYACAAAC **	RMMYACBAAC ** RMMYACCAAC **
* *NOTE: Both EPROMS will be used in the upgrade procedure.* ** *NOTE: Only one of these two labels will be used in the upgrade procedure.*		

INSTALLATION

This procedure will guide you through the process of upgrading the Dantel Status Monitor.

46001-03 AND -09 OPTIONS

STEP 1 - VERIFY INTEGRITY OF DATABASE

GPPs contain what can be a very large database of alarm points and descriptions. This database **will be** lost during this upgrade. Before taking the GPP out of service, verify that the database is intact in the T/Shell program that created it.

The simplest method to ensure the integrity of your database is to upload it from the GPP into the T/Shell program. Refer to the T/Shell documentation for the procedure to accomplish this.

Continue to step 2, but remain aware that after completing the upgrade, the database must be downloaded from the T/Shell program into the GPP.

STEP 2 - REMOVE OLD EPROMs

CAUTION: *Observe all electrostatic (ESD) procedures when handling the 46062 General Purpose Processor (GPP) module.*
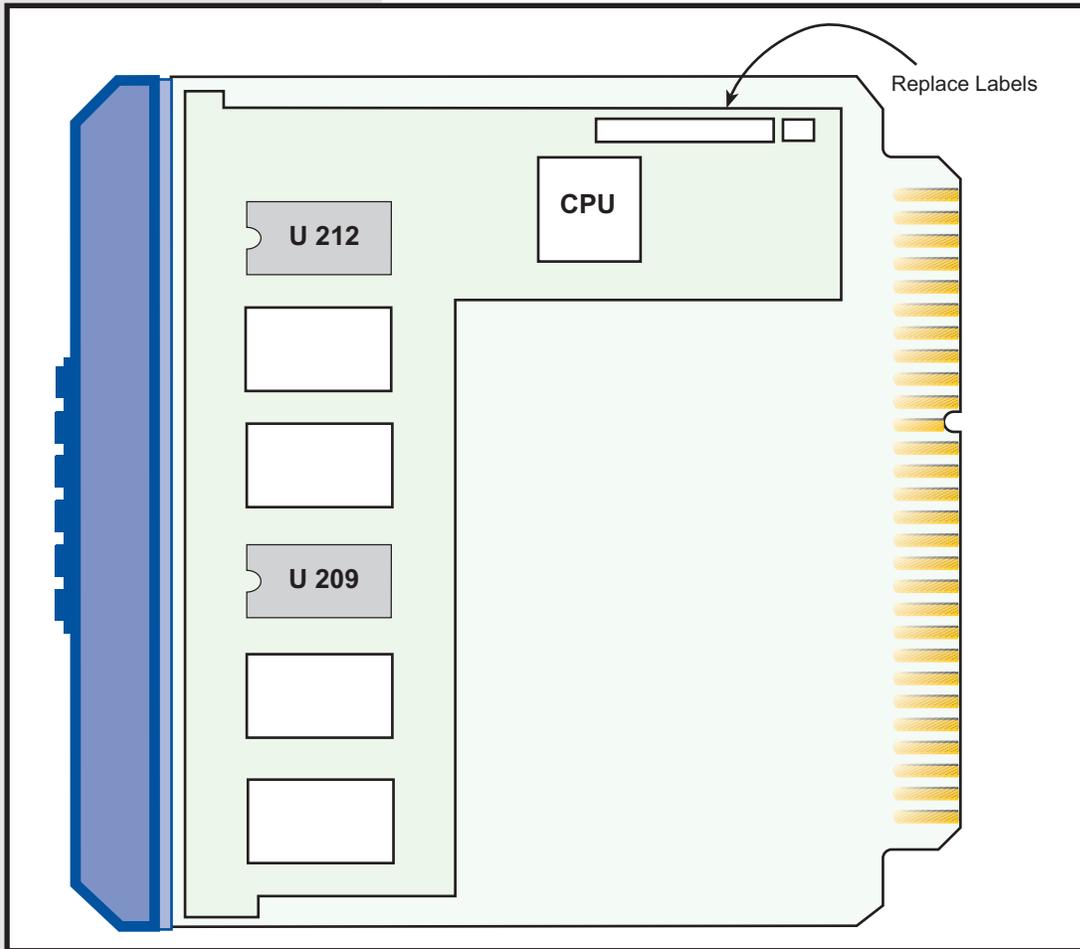
1. Remove the GPP to be upgraded from the Status Monitor. The eproms to be changed are designated U209 and U212 and labeled x82-00300-01 and x82-00300-00 (The "x" could be any letter.) Refer to Fig. 1 for the location of these chips.

    Place the GPP on an ESD approved surface. The componant side should be up and the blue handle to the left.

INSTALLATION

Fig. 1 - EPROM Locations on the 46062 General Purpose Processor

U 212

CPU

Replace Labels

U 209

2. The eproms to be removed are next to the module's front panel and on the upper-most layer. (No disassembly of the module is necessary to replace the eproms.) Before removing the eproms, note their orientation. The notch is toward the front of the module.

IMPORTANT: *There are two eproms that will be replaced. Each of these eproms has a label on it designating it as either a -00 or a -01. The eproms you will be installing are also labeled as a -00 or a -01. The new -00 must go in the same location as the old -00 and the new -01 must go in the same location as the old -01.*

3. Remove the old eproms by pulling straight up on the IC. (It may be necessary to use a small screwdriver to gently pry the old eproms up.) Set the old eproms aside.

CONTINUED . . .

INSTALLATION

STEP 3 - INSTALL NEW EPROMS

1. Install the replacement -00 eprom in the socket labeled U212. (Refer to Fig. 1.)

2. Install the replacement -01 eprom in the socket labeled U209. (Again, refer to Fig. 1.)

3. Verify that the orientation of both ICs is the same as the old eproms (the notch goes to the left). Verify also, that none of the pins on the eproms were bent under the IC when it was pressed into the socket.

STEP 4 - REPLACE LABELS

1. Remove the labels from the upper right hand part of the CPU/ memory subassembly and replace them with the label marked D80-00439-00. Refer to Fig. 1.

2. Remove the barcode label from the blue handle of the GPP and re-place it with the new barcode label marked RMPQADE7AA.

3. Place the new label marked D11-46062-03 on the front panel of the GPP over the old module number. This is located at the bottom of the front panel.

4. On the front panel of the Status Monitor is the number of the unit, either 46001-03 or 46001-09. Place the new label marked E13-46001-03 or E13-46001-09 over the old number.

5. Remove the barcode label from the front panel of the Status Monitor and replace it with the new barcode label marked either RMMYACAAAC (for the -09) or RMMYAB9AAC (for the -03)

STEP 5 - DOWNLOAD GPP

1. Reinstall the GPP in its equipment housing and apply power.

2. Operation begins when power is applied to the unit and is initially based on the switch settings. Once the database configuration has been downloaded to the module, the operating software uses the data-base configuration to control the module's operation.

   The front panel of the module has three green LEDs labeled MAS-TER, DATA, and PRINTER. Each LED flashes when the correspond-ing port is transmitting data.

3. This completes the upgrade procedure.

INSTALLATION

STEP 1 - VERIFY INTEGRITY OF DATABASE

GPPs contain what can be a very large database of alarm points and descriptions. This database **will be** lost during this upgrade. Before taking the GPP out of service, verify that the database is intact in the T/Shell program that created it.

The simplest method to ensure the integrity of your database is to upload it from the GPP into the T/Shell program. Refer to the T/Shell documentation for the procedure to accomplish this.

Continue to step 2, but remain aware that after completing the upgrade, the database must be downloaded from the T/Shell program into the GPP.

STEP 2 - REMOVE OLD EPROMS

CAUTION: *Observe all electrostatic (ESD) procedures when handling the 46062 General Purpose Processor (GPP) module.*

1. Remove the GPP to be upgraded from the Status Monitor. The eproms to be changed are designated U209 and U212 and labeled x82-00283-01 and x82-00283-00 (The "x" could be any letter.) Refer to Fig. 1 for the location of these chips.

    Place the GPP on an ESD approved surface. The componant side should be up and the blue handle to the left.

2. The eproms to be removed are next to the module's front panel and on the upper-most layer. (No disassembly of the module is necessary to replace the eproms.) Before removing the eproms, note their orientation. The notch is toward the front of the module.

IMPORTANT: *There are two eproms that will be replaced. Each of these eproms has a label on it designating it as either a -00 or a -01. The eproms you will be installing are also labeled as a -00 or a -01. The new -00 must go in the same location as the old -00 and the new -01 must go in the same location as the old -01.*

3. Remove the old eproms by pulling straight up on the IC. (It may be necessary to use a small screwdriver to gently pry the old eproms up.) Set the old eproms aside.

CONTINUED . . .

STEP 3 - INSTALL NEW EPROMS

1. Install the replacement -00 eprom in the socket labeled U212. (Refer to Fig. 1.)

2. Install the replacement -01 eprom in the socket labeled U209. (Again, refer to Fig. 1.)

3. Verify that the orientation of both ICs is the same as the old eproms (the notch goes to the left). Verify also, that none of the pins on the eproms were bent under the IC when it was pressed into the socket.

STEP 4 - REPLACE LABELS

1. Remove the labels from the upper right hand part of the CPU/memory subassembly and replace them with the label marked D80-00406-00. Refer to Fig. 1.

2. Remove the barcode label from the blue handle of the GPP and replace it with the new barcode label marked RMPQADD7AA.

3. Place the new label marked D11-46062-02 on the front panel of the GPP over the old module number. This is located at the bottom of the front panel.

4. On the front panel of the Status Monitor is the number of the unit, either 46001-39 or 46001-43. Place the new label marked E13-46001-39 or E13-46001-43 over the old number.

5. Remove the barcode label from the front panel of the Status Monitor and replace it with the new barcode label marked either RMMYACBAAC (for the -39) or RMMYACCAAC (for the -43)

STEP 5 - DOWNLOAD GPP

1. Reinstall the GPP in its equipment housing and apply power.

2. Operation begins when power is applied to the unit and is initially based on the switch settings. Once the database configuration has been downloaded to the module, the operating software uses the database configuration to control the module's operation.

    The front panel of the module has three green LEDs labeled MASTER, DATA, and PRINTER. Each LED flashes when the corresponding port is transmitting data.

3. This completes the upgrade procedure.

WARRANTY

Limited Warranty

The Seller warrants that the standard hardware products sold will be free from defects in material and workmanship and perform to the Seller's applicable published specifications for a period of 18 months for hardware, and 3 months for software, from the date of the original invoice. The liability of the Seller hereunder shall be limited to replacing or repairing, at its option, any defective products which are returned F.O.B. to the Seller's plant, (or, at the Seller's option, refunding the purchase price of such products). In no case are products to be returned without first obtaining permission and a customer return authorization number from the Seller. In no event shall the Seller be liable for any consequential or incidental damages.

Equipment or parts which have been subject to abuse, misuse, accident, alteration, neglect, unauthorized repair or installation are not covered by warranty. The Seller shall make the final determination as to the existence and cause of any alleged defect. No warranty is made with respect to custom equipment or products produced to the Buyer's specifications except as specifically stated in writing by the Seller in the contract for such custom equipment.

This warranty is the only warranty made by the Seller with respect to the goods delivered hereunder, and may be modified or amended only by a written instrument signed by a duly authorized officer of the Seller and accepted by the Buyer.

Warranty and remedies on products not manufactured by the Seller are in accordance with warranty of the respective manufacturer. THE SELLER MAKES NO OTHER WARRANTY OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED; AND ALL IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEEDS THE AFORESAID OBLIGATIONS IS HEREBY DISCLAIMED BY THE SELLER.

In Case of Difficulty

If you experience difficulty with this equipment, check the following, as appropriate:

1. **Switch settings**
2. **Signal levels**
3. **Software configuration**
4. **Connections between Dantel's equipment and your equipment.**

If there is still a problem, substitute equipment that is known to be good. For additional assistance, call Dantel's Technical Field Service Department weekdays, 6 A.M. to 5 P.M. pacific time:

1-800-4DANTEL (1-800-432-6835).

If a thorough checkout shows a piece of equipment has malfunctioned, you may return it to the factory. For repairs and emergency replacements, obtain a Return Material Authorization (RMA) number from the Customer Service Representative at **1-800-4DANTEL** (1-800-432-6835).

To ensure expedient processing of your order, provide a purchase order number and shipping and billing information when requesting an RMA number. Also, when the units are returned to Dantel, include a description of the failure symptoms for each unit returned. Send defective equipment to:

Dantel, Inc. • 2991 North Argyle Avenue • Fresno, California 93727-1388

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