

Firmware Upgrade Procedure for the MKP-4,WKP-4,BKP-4 Key Panels

Required Items

The following items are required to upgrade a Zeus Key Panel from version 1.21 to 2.00:

- Motorola 68HC12 Serial Debug Interface unit
(order from Hamilton Hallmark description M68SDIL \$300.00).
- P&E Micro Systems Inc. programming software (prog12s.exe).
- Serial cable connection between programming computer and Key Panel.
- 12 Volt supply and jumper cable.
- Programs ZKPLow.S19 and ZKP.S19.

Procedure:

The upgrade procedure is as follows:

- Remove the case from the Zeus Key Panel.
- Lift the jumper from J300.
- With reference to the edge of the card that the DE-9 connection is on, attach jumper cable from +12V supply to the left pin of J300.
- Connect the Serial Debug Interface to port J302.
- Apply power to Key Panel.
- Start the program "prog12s.exe".
- Select CM (Choose module) .12P item. This will high light another window asking what type of device your programming. Select 32B\.
- Then select the 768 byte EEPROM memory location by selecting item 9b32_768.12p.
- It will then ask for the base address. Enter **D00**.
- Select SS (specify S record).
- Enter path and the file name for the **zkplow.s19** file.
- Select EM (erase module). A message should be displayed in the STATUS window that the module has been erased.
- Select PM (program module). A message in the STATUS window will state that All S record addresses not in range or module. Continue (Y or N). Select **Y**.
- A message will then state that the module has been programmed.
- Select CM (choose module) .12P item. This will high light another window asking what type of device your programming. Select 32B\.
- Then select the 32K FLASH memory location by selecting item 9b32_32k.12p. It will then ask for the base address. Enter **8000**.
- Select SS (specify S record) and enter path and the file name for the **zkip.s19** file.
- Apply the 12 volt supply to the left pin of J300.
- Select EM (erase module). A message should be displayed in the STATUS window that the module has been erased.
- Select PM (program module). A message will then state that the module has been programmed.
- Disconnect the power supply to the Zeus Key Panel.
- Disconnect the Serial Debug Interface unit.
- Remove the 12Volt supply lead to J300.
- Replace the jumper onto J300.
- Replace case.