

CPU-C90-9401A  
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January 1, 1993

TO: All Sites and Customer Service Offices  
FROM: John Dimpfel  
SUBJECT: CR-2 Dew Point Monitor (P/N 01766300)

- 1) Recently, CRI mainframes and T3D systems have been shipped to the field with new CR-2 Dew Point Monitors (P/N 01766300) in place of the older DPM-10 Dew Point Monitors (P/N 12041400).
- 2) The overall function and operation of the CR-2 and DPM-10 are identical. The interpretation of the Dew Point Monitor output by the WACS subsystem is also identical.  
See CS-H: cpyump91.14c
- 3) The differences in the CR-2 from the DPM-10 are:
  - a) Automatic Mirror Rebalance.
  - b) 4-LEDs mounted on the case.
  - c) No ceramic filter to replace.
- 4) Automatic Mirror Rebalance:  
Site no longer has to recalibrate the Dew Point Monitor. Unit will recalibrate by itself;
  - a) Upon power up.
  - b) Automatically every 168 hours.
  - c) Upon opening\closing the access door of the CR-2.

While the CR-2 Automatic Mirror Rebalance is occurring, the output data is latched such that the WACS continuously sees the last value the CR-2 held prior to starting the rebalance cycle. The rebalance cycle takes approximately 2-minutes.

- 5) The CR-2 has 4-LEDs mounted on the case:
  - a) POWER ON (Green): Power is present to the CR-2.
  - b) VALID DATA (Green): CR-2 is not in a rebalance cycle.
  - c) CLEAN MIRROR (Red): CR-2 mirror needs cleaning.
  - d) REPLACE SENSOR (Red): CR-2 unit needs to be replaced.

By design; the status of the 4-LEDs is not read by the WACS subsystem. It can only be viewed when the system doors are open or the appropriate panels removed.

- 6) Cleaning the mirror:  
Once every year, or sooner if the 'CLEAN MIRROR' LED is found illuminated, clean the mirror as follows:
  - a) Obtain the mirror cleaning (blue) solution and cotton swabs from the cleaning kit. (Until a new part number is available for the CR-2 that contains only cleaning solvent, use the solvent and swabs presently used on the DPM-10 (P/N 01605600).
  - b) Squirt some of the cleaning solvent onto a clean swab.
  - c) Open the MIRROR ACCESS DOOR on the front of the CR-2 and locate the sensor and 'hex' shaped mirror.
  - d) Clean the mirror with the moistened cotton swab. (If mirror is excessively dirty it may need more than one swab.)
  - e) Close MIRROR ACCESS DOOR. This will automatically initiate a balance cycle to clear the old mirror correction factor from memory.
  - f) At the end of the balance cycle the VALID DATA (LED) should be illuminated and normal operation will follow.
  - g) If the CLEAN MIRROR (LED) was illuminated and the mirror was cleaned while the system was powered down; it is necessary to open then close the MIRROR ACCESS DOOR after power up to reset the LED.
- 7) Replacing the Dew Point Monitor.
  - a) Replace the monitor in the same fashion as the DPM-10.  
See the appropriate mainframe Hardware Maintenance manual.
- 8) When the REPLACE SENSOR (LED) has illuminated for any reason, it is necessary to open then close the MIRROR ACCESS DOOR to reset the LED.

(cmz)