PRODUCT INFORMATION BULLETIN PIB # **351402**

PDP- 425CMX – Fan Control

BACKGROUND:

The fans in the PDP-425CMX professional plasma display panel are designed for a wide range of environments; from quiet and often cool locations such as museums and corporate conference rooms to boisterous spots like bars and retail stores. The fans respond to the internal temperature but are heavily affected by the installation site. In warm locations, the fans turn on frequently to cool the panel's electronics while installations with moderate temperatures require less fan activity.

Some factors that influence fan activation are the mounting orientation (vertical or portrait positioning, angled using a ceiling mount, etc.) and whether a communication card is inserted in a panel slot. The plasma display readily recognizes cards from Pioneer so these cards have little to no effect on the panel's internal temperature. Cards from other manufacturers may raise the temperature. Internal logic adjusts the automatic fan activation for the various mounting options and card types.

Occasionally, fan sound may change noticeably in pitch. As the internal temperature changes, the fans slow down or speed up as needed. This pitch fluctuation is normal and part of the 30-second lag between fan rotation adjustments.

Although the internal temperature may fall below the standard operating range, the fans remain ON, rotating at a very low speed. Again, this is normal for the panel. Avoid manually turning fans OFF as unmonitored/uncontrolled internal temperatures can damage the panel or the installation site.

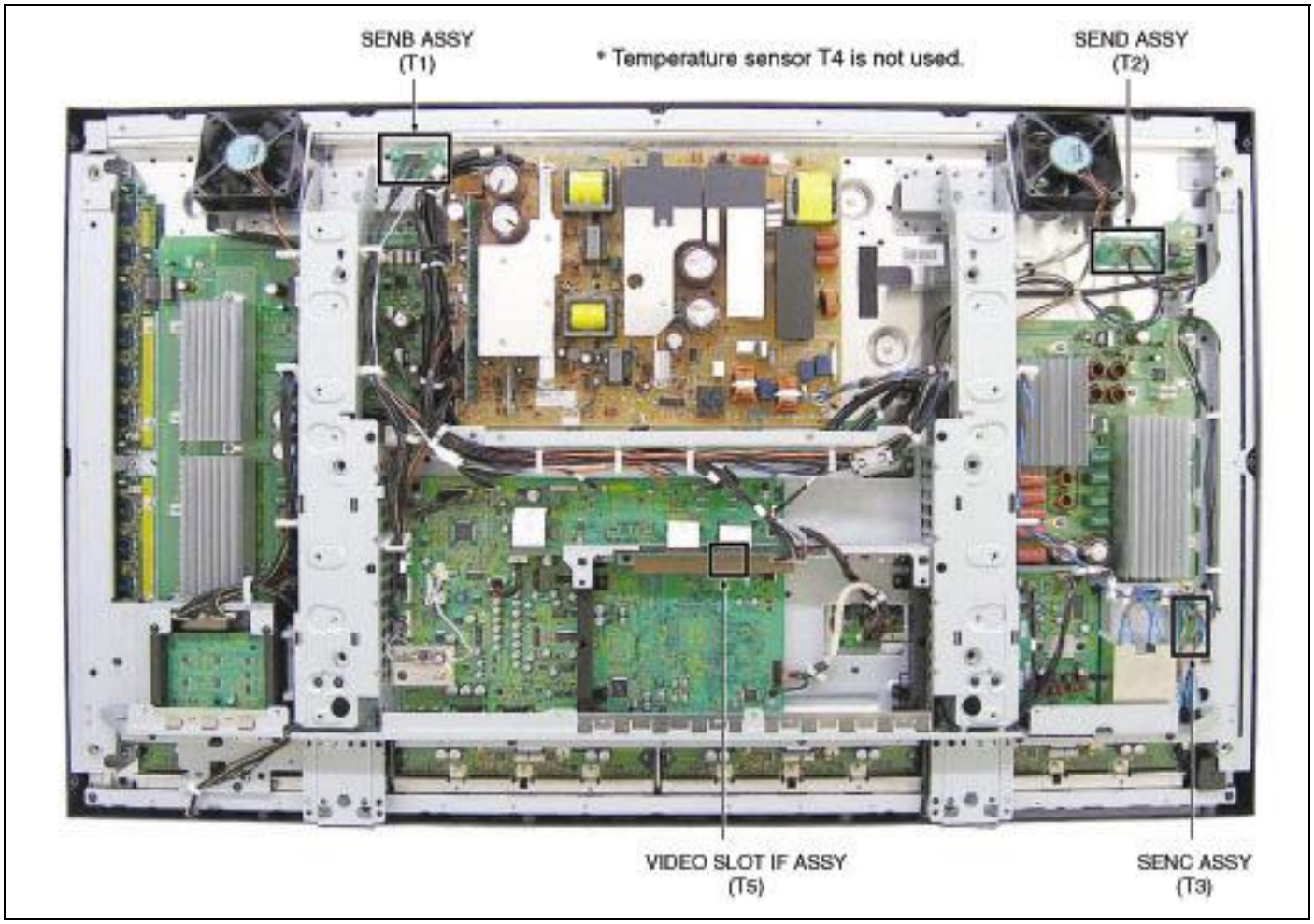
DETAILS:

As an added card increases the panel's internal temperature, the fans rotate faster and more frequently. The chart below indicates the affect card types have on fan rotation.

Automatic Fan Rotation	No Card or a Pioneer Card	Card From Another Manufacturer
Fan Off ↔ Low	154° F (68° C)	131° F (55° C)
Fan Low ↔ Medium	158° F (70° C)	149° F (65° C)
Fan Medium ↔ High	165° F (74° C)	156° F (69° C)
Abnormal Temperature*	180° F (82° C)	180° F (82° C)

**Abnormal temperatures cause the panel to automatically shut down.*

The PDP-425CMX has three sensors (T1, T3, and T5) to detect temperature fluctuations.



Avoid blocking vents or other openings on the back of the panel. Blocked openings can cause the internal temperature to increase.

ADDITIONAL INFORMATION:

Additional information about the plasma display panels is available under the *Business Products Support* area of the Pioneer website:
http://www.pioneerelectronics.com/pna/business/product/support/home/0,,2076_4239,00.html

For specific questions not addressed on the website please contact Pioneer Service at (800) 421–1613.