

## Technical Service Bulletin # 4

**Product:** Babytherm 8000 WB / OC

**Date:** November 30, 1999

**Re:** Mattress Heating, noise on the ECG signal, new Power PCB

**Reference Doc:** IDM no. 5 / 01.98

**Reason:**

1. Introduction of new Power PCB with P/N 82 90 771 and simultaneous discontinuation of old Power PCB with P/N 82 90 641.
2. Faults caused by old Power (PCB P/N 82 90 641) in conjunction with certain ECG monitor models take the form of superimposed noise on the ECG signal. These ECG monitor models are not adequately shielded against electric interference. It is unlikely that the user would interpret this noise as an ECG signal. This noise can also cause interruptions of the ECG signal.

**Solution:**

Re 1:  
Installation of the new Power PCB P/N 82 90 771. This installation requires mechanical modification as described in the conversion instructions 2M 21 923 "[New Power PCB for units up to ARLN-0999](#)". The twin temperature sensor (P/N 2M 20 859) must be replaced in addition by a new one when replacing the old Power PCB (P/N 82 90 641) with the new one (P/N 82 90 771).

Re 2:  
The ECG monitor manufacturers may remedy this problem by way of appropriate measures (filter, other cable, different routing of cable etc.).  
The problem can also be rectified by replacing the old Power PCB (P/N 82 90 641) with the new one (P/N 82 90 771). This installation requires mechanical modification as described in the conversion instructions 2M 21 923 "[New Power PCB for units up to ARLN-0999](#)". The twin temperature sensor (P/N 2M 20 859) must be replaced in addition by a new one when replacing the old Power PCB (P/N 82 90 641) with the new one (P/N 82 90 771).

**Devices affected:** All Babytherm 8000 WB / OC with mattress heating shipped prior to December 1997 up to and including S/N ARLN-0999.

**When:** Re 1:  
When performing repairs, update to new Power PCB.

Re 2:  
If customers request problems with ECG monitor to be rectified by Dräger. The old Power PCB with the P/N 82 90 641 is not to be replaced as a preventive measure.

**Additional Info:** Babytherms fulfill the EMC standards with or without this modification, see section technical data in the Operating Instructions Babytherm 8000 WB.

**Cost:** Covered by Customer

**Ordering Info:** Power PCB (P/N 82 90 771)  
Twin Temperature Sensor (P/N 2M 20 859)

**Distribution:** Dräger Service Personnel and Authorized Service Organizations for NCS products.

If you have any questions, please contact Technical Support by phone at 1-800-543-5047 or by fax at 1-215-723-5935

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