

## **MassCare Ltd**

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## **Technical Information**

### **Magnet Supply DAC**

While the VG9000 has always proved itself to be a remarkably reliable instrument, any system of such an age is going to suffer problems of obsolescence.

One particular component that has caused concerns for some time is the DAC (Digital to Analogue Converter) used in the High Resolution Magnet Supply. The original component (Hybrid 9377-16-6), a 16 bit DAC, was discontinued by the manufacturer some years ago.

Experience has shown that these DAC's can become non-linear with time, leading to mass calibration problems or, at worst, an inability for the system to perform a mass calibration. (If you have a spare Hybrid DAC then we strongly recommend that you test it for linearity)

One alternative to overcome problems is to redesign the entire DAC board, but this is expensive and means that the unit is completely non-standard leading to possible problems with fault diagnosis at a later date.

**MassCare** has now found a manufacture producing a direct replacement for this component and has acquired several for support of VG9000 systems. It is fully pin-compatible with the original version and is totally transparent to the control software.

If you wish to purchase a spare DAC as back up for your system then please contact us for a price.

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