

**CARDEV**

Oil Filtration and Coolant Handling Specialists



# DATA SHEET

## PM 4000/2-6

# PARTICLE MONITOR

***Fits to All The Cardev Filtration Systems***

***Provides Digital Reading Within 2 Minutes***

***Built In Alarm to Flag Up Any Contamination Level Changes***

***Easy To Operate***

***Data Acquisition Download To PC***

***Produces Standard ISO Code Readings***

***Retro-Fit Kit Available***



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**PM 4000/2-6**

**PARTICLE MONITOR TYPE:**  
**PM 4000/2-6**



## **INTRODUCTION**

The particle monitor is designed to be installed on a CARDEV standard OSCAR 2S – 6S filtration unit, either during manufacture or retro-fitted.

The instrument is fitted to a steel mounting plate together with a mains operated power supply unit.

## **DESCRIPTION**

The particle monitor operates on the principle of light extinction to detect particles passing through an optical cell. The photo detector which, is situated on one side of the cell, detects light generated by a laser diode, situated on the opposite side of the cell.

An LED display is incorporated to give direct readings of oil contamination and operating parameters of the instrument.

The instrument is powered by means of a 12v dc power supply unit, which in turn is operated from a 230v ac mains supply. The power supply unit incorporates an on-off switch, also a socket outlet to power the OSCAR filtration unit. This facility avoids the requirement for two separate mains supplies.

A detachable fibre optic lead and connector is provided to enable data to be down-loaded to a personal computer.

## **OPERATION**

Connect the monitor IN and OUT ports to the OSCAR filtration unit sampling ports by means of the micro-bore hoses provided. The inlet port is colour-coded red and the outlet port yellow. These should be connected to ports of corresponding colours on the filtration unit.

Connect the filtration unit supply plug to the socket outlet and the power supply mains cable to the local supply. Start the OSCAR filtration unit and turn the power supply switch to the ON position. After a period of approximately 2 minutes the digital display will show meaningful values, which are displayed by pressing the appropriate SCROLL DOWN button.