

UK based Pambry Electronics Ltd of Poole in Dorset have recently launched their new Personal Noise Dose Meter. It is believed to be the lowest priced Class 2 Noise Dose PME (personal monitoring equipment) in the world and is typically 30% to 50% of its nearest rival.

Expected markets are Health and Safety in, Construction, Mining, Manufacturing, Test Engineering, Club and Concert staff plus many others.

With a footprint smaller than a credit card and just 15mm thick (not including the clothing clip), the device has been designed on the back of years of Pambry Electronics' military experience in microphones and electronics, and such issues as periodic calibration has been extended to more than a year. Also the environmental conditions in which the device can be used are much tougher.



The device part number PED 0828 (shown above with its optionally available external microphone) is unique as it not only includes all the usual features of its rivals' product such as measurement of Noise Dose (8hr day), Noise Level, Data logging and download, etc but has inbuilt capability to monitor Ambient Temperature, Relative Humidity, Motion and Orientation.

A key new feature is the addition of device knock and vibration detection. This feature vastly improves the accuracy of the noise dose results and is subject to a PCT patent application.

The device comes in three standard colours, cream, grey or black. Special colours can be ordered subject to quantity.

Extracting the data recordings (datalog files) can either be via microUSB cable connection or bluetooth wireless to your smart phone or PC. The cable

connection is also used to recharge the device from any PC USB port or charger.

The battery life between charges is in excess of 4 working weeks and the device meets the criteria of the Control of Noise at Work Regulations 2005 (UK) and international standards IEC 61672-1 and IEC 61252.

It is expected the device will appeal not just to the usual corporate users anxious to protect their employees but also individuals wishing to know if their hearing is under threat as the price is well within the reach of most individuals. The device can accommodate the use of earmuffs by selecting from the built in database or keying in the specified earmuff SNR value.

The external microphone is recommended for use when the weather conditions are poor and the user would prefer to place the main device somewhere like a coat pocket

The display is lit to allow ease of use in poorly illuminated situations, and displays selectable pages of information such current and projected Noise Dose, current and max Noise Level, graphical presentation of Noise level history (last 2hrs), current/min and max Temperature and Relative Humidity, Battery charge status, Noise data detail to current time, and further sub level settings pages to allow selection of the more complex features of the device.

There is also a warning light that flashes Amber when the Noise dose has reached 70% (of the safe level for 8hr day) and Red when 90% has been reached. It will also flash Blue when peak safe noise level of 120dBC has been exceeded. All level thresholds and weightings can be changed in these settings page too.

The data log recording files can be used to provide some clever analysis since all measurements including temperature, humidity, knock count, motion, etc are available against the built in real time clock.

If you are interested in one of these amazing devices contact:

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<http://www.pambry.co.uk/pambry-personal-noise-dose-meter.php>