New Software for Monitair Chevron

In line with Monitair's commitment to continual product improvement, the Chevron now has a new software set with the following enhancements.

1. As delivered, the unit is in a low-power mode. In this mode, the display shows a flashing cross, but the LED is not active, and no measurements are being taken. This mode offers the lowest battery consumption rate, using less than 20uA. In this mode the unit could run for over 6 years before needing a battery change. Once the unit has been calibrated for the first time, it changes to normal running mode, with a flashing LED to show low airflow, and a pressure measurement taken every 15 seconds. Since the Chevron is usually supplied with batteries fitted, this enhancement allows for a longer storage time, should it be necessary to delay installation.

2. The Chevron is normally configured to measure duct static pressure at, or near, the air entry point. It is therefore impossible for the system to get blocked before this point, in normal use. On occasion, however, the only convenient sample point is 'behind' a filter. Spray booths are an example of such a configuration, often being fitted with a paper filter in the wall of the booth, through which air is drawn by the fan, normally into a plenum. As the filter gets blocked, the static pressure inside the plenum rises, indicating an alarm condition. Since the Chevron has, in the past been configured to only alarm on a drop in the value of negative pressure, this latter type of failure would not have been recognised. The Chevron can now be configured to measure both low AND high values of duct pressure.

To enable this configuration carry out the following: Remove one of the batteries, place the magnet in the normal 'calibration' position on the front of the unit and, keeping it there, re-fit the battery. The LED will flash quickly, at which point remove the magnet. The LED will flash a few more times, and the display will show the moving chevron pattern – but there will be 3 chevrons moving together instead of 2. This indicates the the upper/lower mode has now been set.

The unit can be reverted to normal mode, if required, by repeating the process. In normal use, the X will flash normally when static pressure value is too low, but flash at a faster rate if the pressure value is too high i.e. blocked. This mode is also useful when the only sample point available is on the 'wrong' side of a damper. If you have any questions about these software enhancements please do not hesitate to contact me.

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