



LoggerBox: THE KEY TO DETERMINING COMPRESSOR EFFICIENCY



Before investment in any energy saving system for compressors can be entered into the likely savings first have to be quantified. This means determining the efficiency of a compressor installation in terms of its offload (non-productive) running, its facility for pressure optimisation and the effective utilisation of the equipment.

LOGGING FOR UP TO 14 COMPRESSORS REGARDLESS OF MANUFACTURER

The mechanism for obtaining this data, simply and efficiently within the Enercon Energy Management, system is the EnerAir LoggerBox. The LoggerBox is intended to facilitate highly accurate data logging, analysis and reporting exercises for air compressor systems. It is capable of monitoring any pressure range (using a standard 4-20mA type pressure sensor) and the input power (current flow) of up to 14 electrically driven air compressors, simultaneously, regardless of their manufacturer or pressure regulation methodology.

The Loggerbox has its own inbuilt calendar clock., and is capable of logging samples at a rate of one every second (1s) to one every nine seconds (9s). A sample rate of five seconds (5s) is recommended for routine logging exercises. To ensure maximum security and proof against tampering the unit is enclosed in a rugged aluminium/steel case (450mm x 340mm x 190mm), which can be closed and locked during a logging exercise.

LARGE NON-VOLATIVE MEMORY ALLOWS MULTIPLE MONITORING OVER MANY MONTHS

A large, 4GB, non-volatile log file memory with six separate log file locations enables the LoggerBox to conduct logging on six separate installations for several months before data transfer to a PC is required.

EMAS MANAGER SUMMARISES STATISTICAL DATA FOR FAST DECISION MAKING

When data transfer and analysis of the logged data is required it is effected using a suitable desktop or portable PC (Pentium 2 166MHz minimum) installed with EnerAir's EMAS Manager software. Running under the Windows operating system, EMAS Manager provides a quick and simple method of exposing system "key performance indicators". The software's statistical report function automatically analyses the log files to extract relevant data. Presenting this on single page executive style summaries to facilitate quick, concise, but knowledge based decision making or comparative analysis.

The flexibility of EMAS Manager's Windows operating system also enables logged data to be exported instantly, for analysis or manipulation, to any PC installed with Microsoft EXCEL.

