

Maxaura's flow monitors accurately measure and record the compressed air flow, pressure and temperature in a pipe rather than monitoring a compressor's operating cycle which only gives an indication of approximate air flows.

Applications

Ideal for accurately determining:

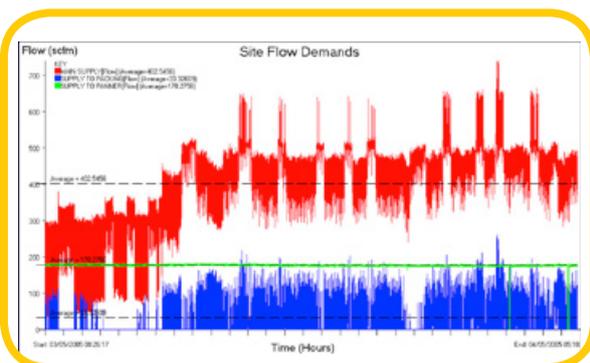
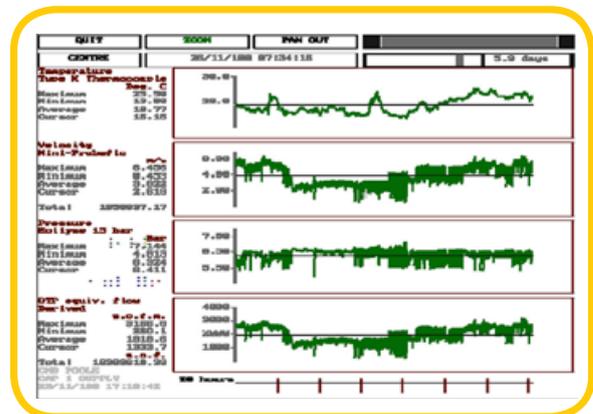
- The site's compressed air requirements
- Leakage and/or wastage
- User equipment compressed air requirements
- The correct sizing for new or additional compressors
- The efficiency of a compressed air system
- Reductions in energy requirements and operating costs



Reports are tailored to meet the client's requirements and normally incorporate the data in both tabular format and as graphical illustrations. A section details any observations that were made on site or derived from the recorded data and, where applicable, recommendations are made.

Single Point Flow Measurements

The recorded flow, pressure, temperature and velocity data is displayed graphically. Maximum, minimum and average values for each of the parameters are also detailed. The graphs can be scaled from illustrating all the recorded data down to a few seconds' detail for close analysis of any 'event' in the system.



Multiple Flow Measurements

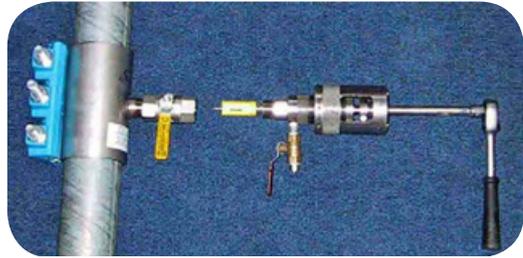
Where a number of flow meters have been installed in a system, the recorded data from each meter can be displayed simultaneously on the same graph. This facilitates the analysis of the effects on the system of specific activities in any one area.

Method

The flow is measured by a miniature turbine which is inserted into the pipe via a clamp. The complete process is conducted under pressure and therefore does not interrupt production.

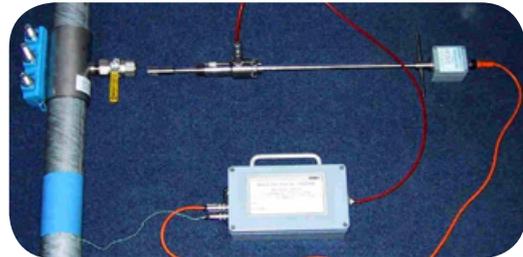
Creating the tapping for the turbine

A stainless steel clamp with a 1" ball valve is fitted to the pipe and a special under pressure drill is used to drill through the valve and pipe wall. During the drilling process a purge of air is taken through the drill assembly to prevent swarf being carried into the process line.



Installation of flow meter

The flow meter is inserted into the pipe through the valve and connected to the Maxlog data logger which records the flow, pressure and temperature every two seconds.



Complete installation

The system is self contained and powered by the logger's internal batteries. On completion of the monitoring period, the recorded data is downloaded from the *Maxlog* to a computer for analysis.



Associated Maxaura Services

Compressed air flow monitoring can be a 'stand alone' activity or can be combined with one or all of the following to form a comprehensive system audit.

- Compressor Performance Testing
- System Electrical Power Monitoring
- Ultrasonic Leak Detection
- Compressed Air System Cost Analysis Simulation Programme

Other Maxaura Products and Services

- Pressure Systems Safety Regulations Compliance Programmes
- Pressure Systems Examination
- System Design and Re-design
- Project Management
- Air Quality Testing
- Instrument Calibration
- Pipework Identification

MAXAURA

THE MANAGEMENT OF PRESSURE ENERGY



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