



DO YOU KNOW THE EFFICIENCY OF YOUR COMPRESSED AIR SYSTEMS?



Energy Monitoring

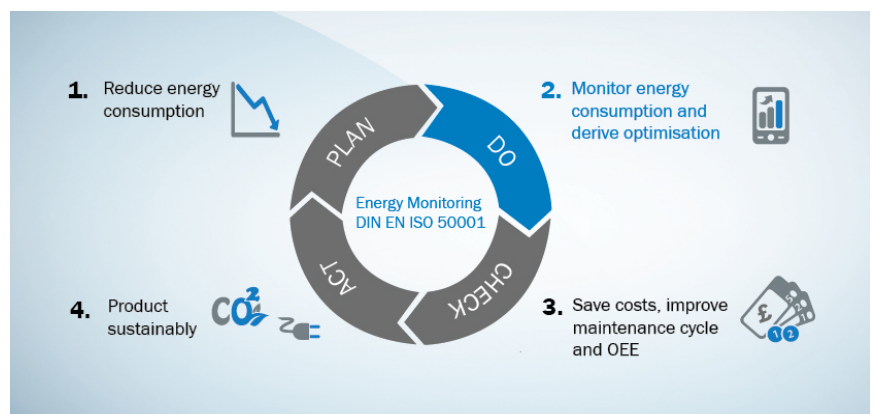
- Over 10% of the electricity supplied to industry is used to compress air*
- Many systems waste around 30% of the compressed air through leaks, poor maintenance, misapplication and poor control*
- Annually UK Industry uses over 10TWh of Electricity to compress air, equivalent to the output of almost 1.5 power stations and over 10 million tonnes of CO₂ emitted into the atmosphere*

* According to the Carbon Trust

Improving Your Energy Efficiency

An example of an efficient energy monitoring system is provided by DIN EN ISO 50001

- **Step 1:** Plan – Investigate ways to reduce energy consumption
- **Step 2:** Do – Actively monitor the energy consumption of processes and derive possible actions
- **Step 3:** Check – Review system improvements, impacts on OEE
- **Step 4:** Act – Continuous improvement of Energy Management



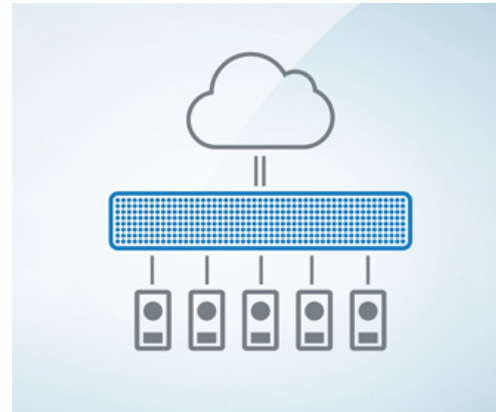
How You Can Monitor Compressed Air Consumption



Monitor compressed air consumption using the FTMG 4 in 1 flow meter.

- Flow, Pressure, Temperature, Energy measurement
- Real time and trended data
- Helps identify usage anomalies
- Providing data to trigger corrective action

Integration of Flow Monitoring Data into Various Network Architectures



Data from FTMG flow sensors can be integrated into PLC or Cloud based software via;

- TCP/IP communications including web server
- OPC UA / MQTT for integration into MES / Energy Management Systems
- Smart Services Gateways
- IO-Link / Analogue / Switch signals for PLC integration

The Complete Solution

The complete solution comprising of FTMG flow sensors, Smart Service Gateway and Monitoring App. provides visualisation of air consumption of your individual machines and complete production process.



- Aggregated data: Flow, Pressure, Temperature, Energy Consumption
- Visualisation of real time and data trends over user defined time
- Automatically generates recommended actions
- Recording of Historical data for analysis
- Globally accessible on any device e.g. PC, Tablet, Mobile Phone
- Provides transparency of data to enable you to: Optimise OEE, Improve efficiency, Increase productivity, Improve sustainability, minimise downtime, reduce energy consumption, costs and carbon footprint.

For more information call 01727 831121 or e-mail info@sick.co.uk