

FOX APPLICATION GUIDE

Compressed Air Monitoring with Fox Thermal Flow Meters

TYPICAL APPLICATIONS INCLUDE:

- Air Injection
- Combustion Air
- Compressed air
- Cooling Air
- Dryer Air
- Leak Detection
- Purge Air
- Seal Air Flow
- Wastewater Aeration
- Ventilation

Reduce Compressed Air Leaks

Implementing accurate compressed air flow meters is an effective first step in controlling energy costs. As the price of power continues to rise, many plant managers are using compressed air flow meters to find out how they can improve air control through compressors and blowers.

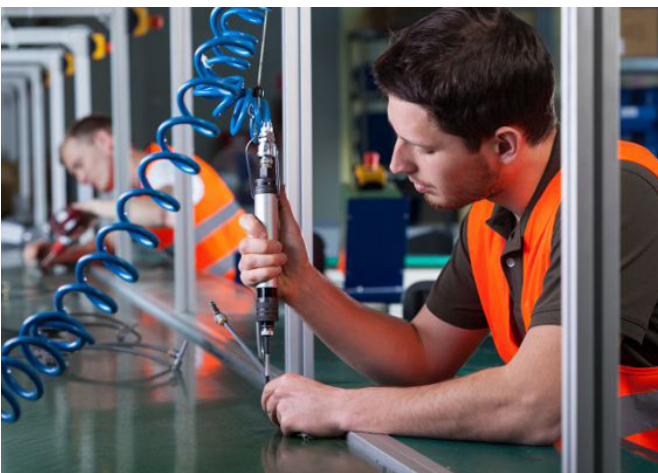
With a mass air flow meter system, costly leaks can be identified on a system-wide scale. This is especially important when considering that leaks are frequently a significant source of lost energy, sometimes wasting up to 30% of compressor output. Compressed air system leaks can also cause a drop in system pressure, force equipment to cycle more frequently and lead to additional maintenance requirements and downtime.

Anywhere from 7 to 10 times more costly than electrical energy, compressor systems require optimal efficiency and air flow control. Repairing leaks, therefore, is critical to reducing plant operating and maintenance costs. Fox Compressed Air Flow meters provide an excellent method for evaluating compressor efficiency and locating these serious leaks.

Accurate Compressed Air Monitoring

Distinguished by its accuracy at very low velocities, the Fox thermal flow meter is able to provide the total air consumption and flow rate information you need to make predictive maintenance and upgrade decisions. When detecting air flow and temperature on a plant-wide scale, thermal mass flow meters are an essential tool. Utilizing advanced probe type thermal mass flow meters is an extremely effective way to tell exactly where compressed air flow is going.

One plant manager reported almost immediate payback on several Fox compressed air flow meters when they helped him locate a high volume of flow in pipes leading to a decommissioned section of the plant. According to this customer, "After installing the Fox flow meters, we discovered



Compressed air is commonly used for industrial processes.



Industrial applications need robust instrumentation with approvals to back up their claims.

a substantial variation in the readings on particular process lines and total air flow consumption. The source of the anomaly was quickly identified and corrected, resulting in significant energy savings.”

Using air flow meters to monitor compressed air in multiple lines can also help plant operators optimize facility loading, effectively schedule maintenance operations and allocate energy costs.

Call Fox Thermal today for more information on how we can help with your compressed air application or go to the Fox Thermal website and configure a meter for your process conditions to request a quote.



The Model FT4A from Fox Thermal has FM, FMc, ATEX, and IECEx approvals. See the FT4A Datasheet for more details.



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