



VP INSTRUMENTS

Applications:

- Compressed air audits.
- Cost allocation.
- Leak detection.
- Air supply control systems.



VPFlowMate®

...The energy meter for compressed air™

Compressed air is a very expensive energy source. In fact, it can be about 20 times more expensive than electricity*.

In many cases, compressed air is wasted due to leakage, non-optimal compressor configurations or misuse. The VPFlowMate can help you to find these energy losses and do something about it.

State of the art technology

Due to the use of state-of-the-art sensor technology, you can rely on highly accurate measurement results. The flow meter operates according to a thermal mass flow principle. The flow causes the sensor to cool down.

This cooling is converted into a measuring signal and digitally processed. The VPFlowMate offers various signal outputs: Analog via a 4..20 mA or digital via RS232.

Flexible to use

Whether the measurement of compressed air consumption is performed on a temporary or permanent basis, with the VPFlowMate you will have an excellent tool at your disposal.

The VPFlowMate insertion probe can be applied in various compressed air lines ranging from 2 inches (50 mm) to 12 inches (300 mm).

The flow meter is set using special configuration software. You are guided step by step through the installation, thus making it quite simple and easy for you.

Features:

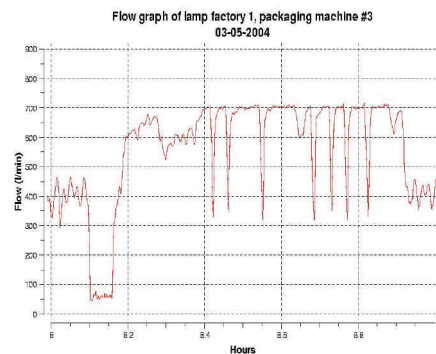
- Solid state mass flow sensor.
- Digital signal processing.
- Analog 4..20 and serial RS232 outputs.
- Configuration and measurement software.
- Suitable for installation in pressurized lines.
- Installation accessories included.

Benefits:

- Easy to install.
- Versatile use.
- Plug & play accessories.
- Easy to use software.

Reduction of air costs**

A steel plant using the VPFlowMate recorded 1500 m³_n/hr of air being consumed in the weekends. This was costing the plant about 3600 kWatts per twenty-four hours. This amount of air consumption proved to be caused by the exhaust system. By adjusting this system more efficiently it was possible to reduce consumption by half to 750 m³_n/hr. On the basis of 8,000 running hours per year, this translated into a saving of some 42,000 euros on an annual basis.



*Depends on the total efficiency of your compressed air system, from compressor station to the point of use.

**Actual savings may vary because of compressor efficiency, variations in electricity prices and so on.



Product line

1. VPFlowMate insertion flow meter

For mobile measurements, stationary compressed air measurements, energy audits. Flexible application and easy to install by using compression fittings.

- Measurement ranges: 0..20 m_n/sec, 0..80 m_n/sec; 0..150 m_n/sec; other measurement ranges upon request
- Outputs: RS232, 4..20 mA

2. VPFlowMate in-line flow meter

For consumption measurements on machines, measurements in smaller compressed air networks. To be mounted into the line.

- Measurement ranges: up to 700 m³/_n/hr (2")
- Outputs: RS232, 4..20 mA

3. VPConfig & VPFlowDAQ software

Using the VPConfig program you can configure and read out the VPFlowMate. You can change the display settings, program the tube diameter or reset the totalizer.

The program leads you step by step through the installation. With VPFlowDAQ you can follow your measurement real-time (graphical function), store and process data (datalogger function), and print measurement reports.

4. Plug & Play Accessories

For the VPFlowMate, a unique line of installation accessories is available for quick, easy and trouble-free installation. All installation accessories are supplied in a solid IP55 housing suitable for wall mounting. Supplied ready to be plugged in.

Basic version

The basic version provides the flow meter with the supply voltage required. On the basic version, an RS232 connector is available for connection to your computer.

Basic + Display

This version is provided with a back-lit LCD display. It shows simultaneously both flow and total reading.

Basic + Display + Data logger

The built-in compact flash logger enables you to store data for an extended period of time. Using the VPFlowDAQ software,

you can read out the compact flash card on your PC. You can subsequently print compressed air consumption graphs or export data to a spreadsheet program.

