

**DASTECS** S.R.L.

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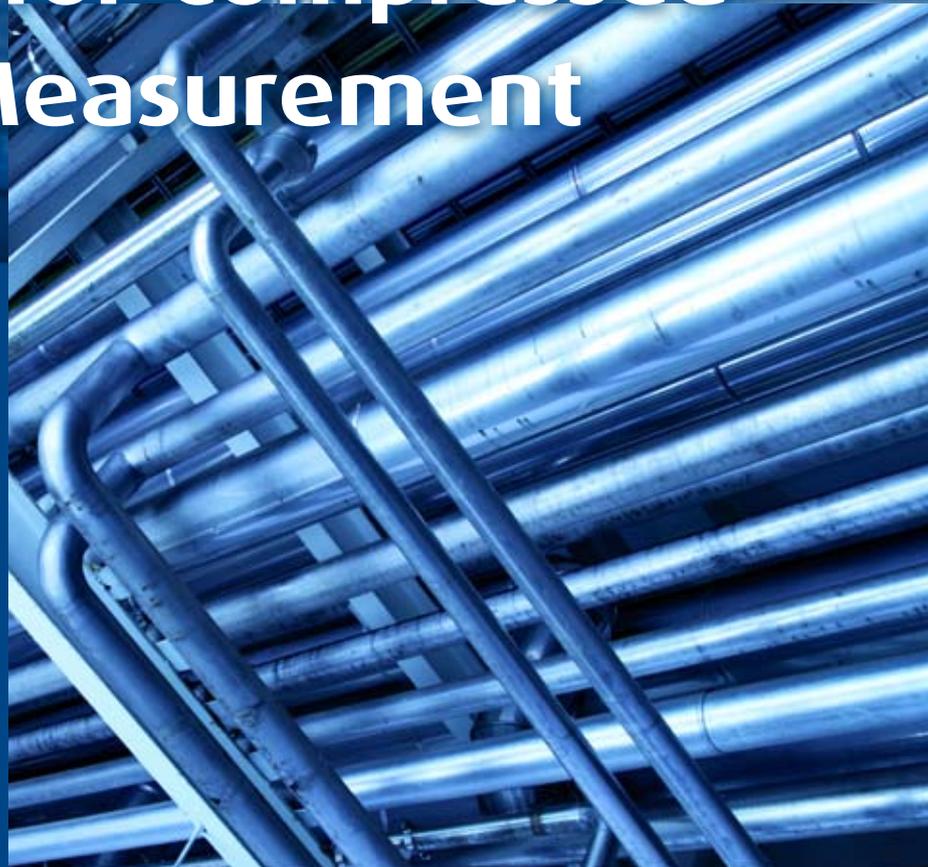
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# Total Solutions for Compressed Air Measurement

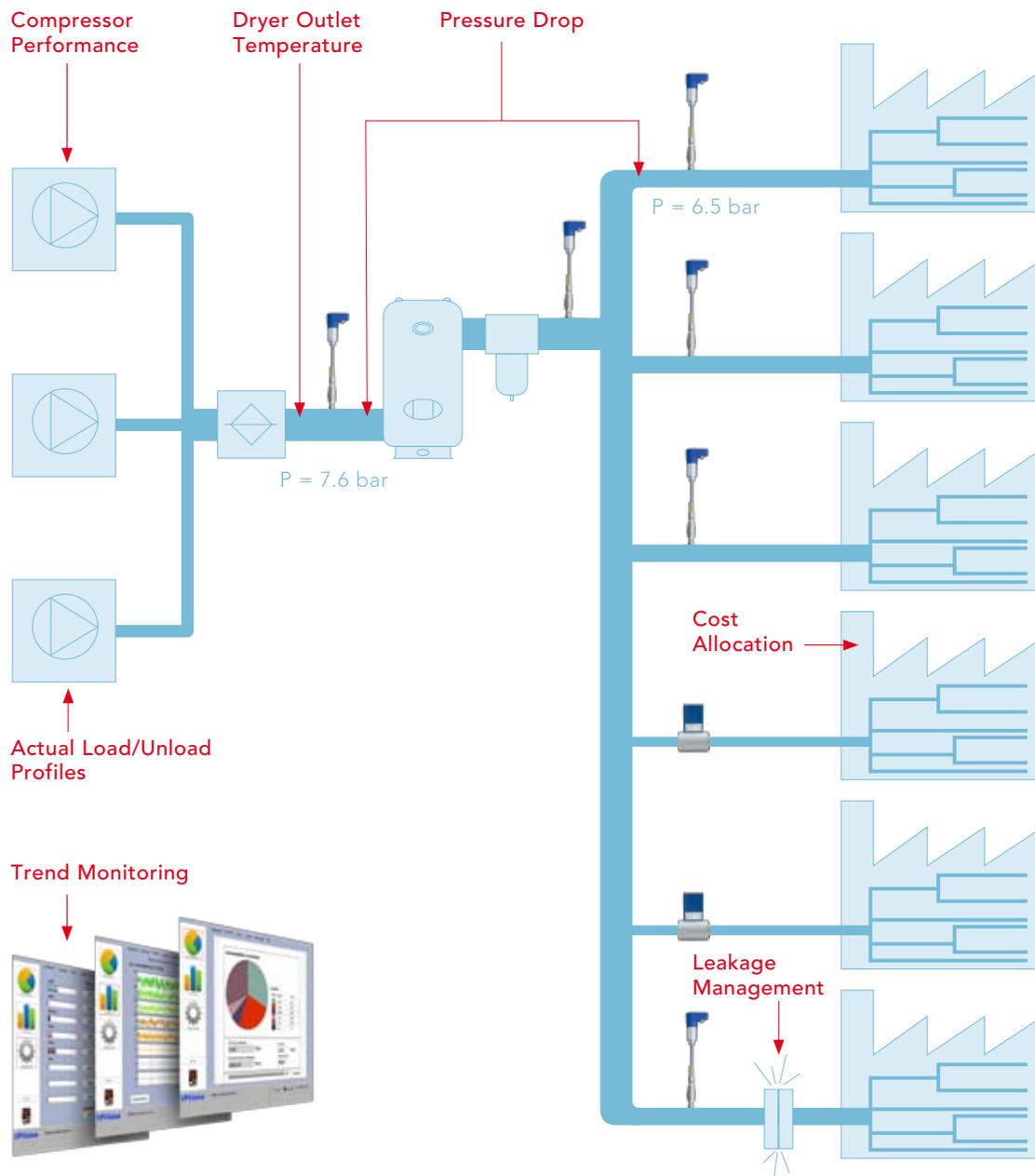


**VP** INSTRUMENTS

'If you can not measure it, you can not improve it'  
(Lord Kelvin, 1883)

## Get the Complete Picture

Start with energy savings today and receive insights in your compressed air system. VPIstruments shows you **why, how, where** and **how much** you save! Reveal the inefficiencies in your system, allocate compressed air costs, manage your leakage and receive insights in pressure drop.



## Compressed Air Savings

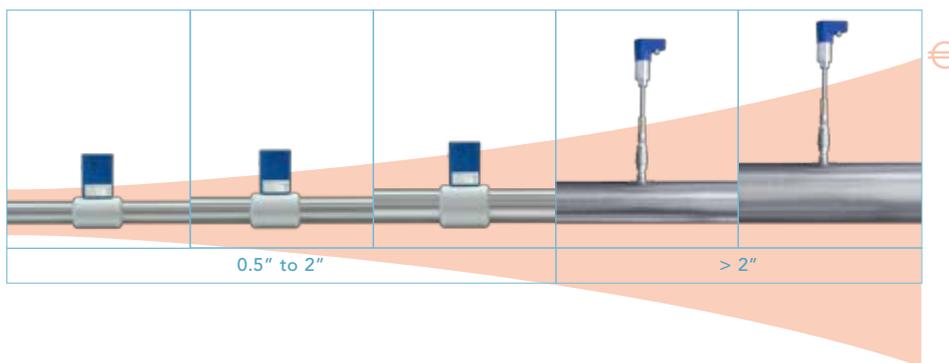
Compressed air systems are installed to support production processes. However, in many cases, compressed air is wasted due to leaks, non-optimal configurations, or misuse. Many independent studies show: compressed air management leads to permanent cost reduction. Good compressed air management starts with leakage monitoring, regular maintenance and permanent monitoring of the efficiency of your system. System improvements can result in saving from 20 - 50%\*.

A 75 kW installation can cost you 657,000 kWh per year when running 24/7. A savings potential of 15% can be worth €9,855 at a price of €0,10/kWh. Imagine the savings for your compressed air installation over the lifetime of your compressor! Fifteen years of proper compressed air management would add up to €150,000.

\* Radgen, P., Blaustein, E., *Compressed Air Systems in the European Union, 2001, Stuttgart*

## Importance of Measuring Flow

Know why, how, where and how much to save! With flow measurements you know your actual compressed air usage. Power consumption and other non-intrusive ways only show part of your air consumption and results are based on assumptions. Flow measurements show exactly where your air is going, how much air is flowing and your consumption profile. Flow measurements give you insight in your compressed air usage.



## Keep a Continuous Eye on Your Compressed Air Consumption

To keep your efficiency at an optimum level, continuous monitoring is most important. Take compressed air leaks for instance. Repairing leaks is one measure that can save thousands of euros. However when you do not measure the leaks continuously, one year after the repairs, you will end up with the same amount of leaks again. By monitoring your air consumption permanently, you can take measures in time and prevent huge losses.

## Case

In Italy, the compressed air system of a water bottle manufacturer was investigated. The amount of leaks was huge. After repairing the leaks, the total amount saved was €100,000 per year. Now they have implemented a leakage management system including 7 VPFlowScopes to prevent such losses from happening again.



## Typical Fields of Application:

- Glass
- Paper
- Automotive
- Petrochemical
- Pharmaceutical
- Semi-conductor
- Ceramic factories
- Cement and construction products
- Food, beverage industry and breweries
- Water treatment
- Production and packaging plants

### Gases:

- Compressed air
- Nitrogen
- Technical gases (like CO<sub>2</sub>, He, Ar)
- O<sub>2</sub> and natural gas (non Ex)

# Product Portfolio

## VPFlowScope

The all-in one instrument for compressed air measurement.

- All-in-one: save on installation and data analysis
- Mass flow, pressure and temperature is measured simultaneously
- Built-in data logger
- Easy to install and easy to use
- Keypad: no need for a laptop in the field



## VPFlowMate

The industrial proven mass flow meter.

- Read out of actual flow and totalized flow
- Easy to install: plug and play
- Available as in-line flow meter and insertion probe flow meter



VPInstruments offers products to measure flow in piping systems from 0.5" up to 20". Our products can measure flow ranges from 0.24 m<sup>3</sup>/hr up to 105,000 m<sup>3</sup>/hr, covering all compressed air flow and technical gas flow applications.

## Complete Energy Monitoring Solutions

With our monitoring systems you have a complete solution for monitoring your entire compressed air system.

- **VPVision:** one central screen with read out of all flow meters in your factory.  
Receive real-time read out and see the distribution of the compressed air over the different production areas of your factory. All data is being logged and available for further data analysis.
- **AirVision:** one central screen to monitor the efficiency of your compressed air system.  
Besides read out of flow, AirVision also offers read out of e.g. power consumption, dew point sensors, pressure sensors, oil transmitters, etc. AirVision is a custom-made product and easily adapted to show the efficiency of your system. Get monthly reports with advice on how to improve your compressed air system.

### Installation in Pressurized Piping

Hot tap drilling is the method used to create installation points in compressed air piping without interrupting the compressed air supply.



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VPInstruments develops, produces and supplies energy management systems for compressed air installations. We provide insights into your compressed air consumption as well as your savings potential. Our focus is on measuring and visualising flow and costs of compressed air, nitrogen and technical gases; we show why, how, where and how much can be saved.

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