Network Engineering
Industrial Automation

Endress+Hauser
People for Process Automation

Energy management

Did you know ...?

That a 1 mm leak in a compressed air pipe can cause additional costs of EUR 120 per year?
And that 50 to 80 leaks of this size incur annual additional costs between EUR 6000 and 9500?

- 1 millimeter leak

Additional costs of EUR 120/Year

- 3 millimeter leak

Additional costs of EUR 1100/Year

How many are in your plant?

Benefits

- **Uncover unexploited potential energy savings**
- **Automatic tracking of specific energy figures**
- **Creates energy forecasts**

Applications

- **Measuring operating equipment and energy source: Compressed air**
- **Monitoring energy consumption and the efficiency of compressors**

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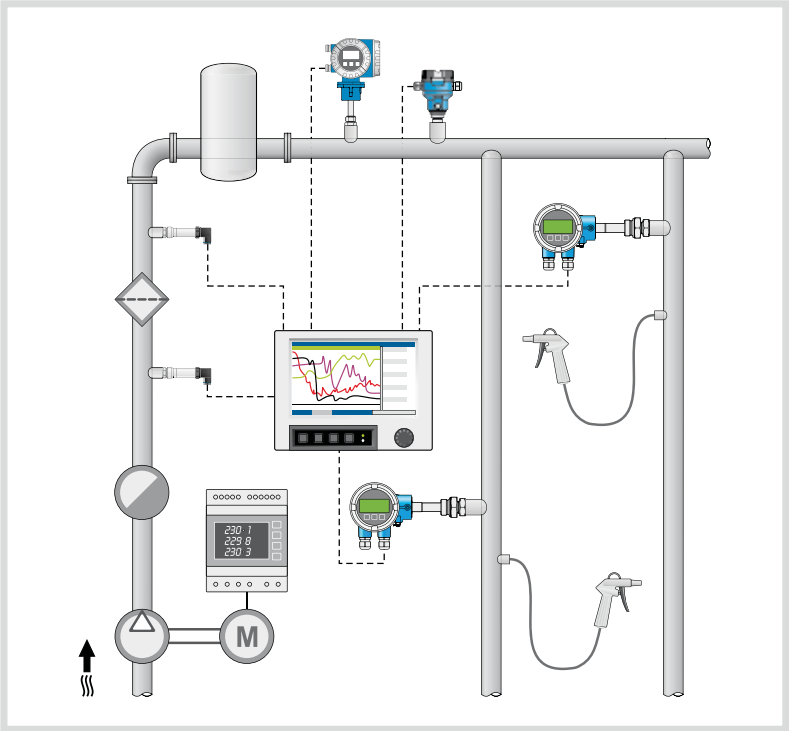
Our measurement technology For Compressed air



Energy management software

- Monitor specific energy consumption
- Allocate generation costs across multiple cost centers
- Set and monitor target values based on historic data
- Uncover leaks
- Calculate additional profits due to energy-saving measures

t-mass 65 / t-mass 150

Thermal flowmeter

- Consumption measurement (standard volume, e.g. Nm^3)
- Tracing leaks

Prowirl 72/73

Vortex flowmeter

- Specifically for non-dried and unfiltered compressed air of low quality
- Pressure and temperature compensation via Prowirl, or using an external data manager such as Memograph M

Cerabar M

Pressure sensor for recording system pressure

Cerabar T

Pressure sensor for monitoring filters (pressure loss due to blockages)

Memograph M

Data manager

- Recording (e.g. specific energy consumption, losses)
- Totalising (e.g. performance of multiple compressors)
- Monitoring setpoint values
- Issueing alarms (limit values)

EngyVolt

Multifunctional electrical energy meter

- Top-hat rail mounting (RV12)
- Panel mounting (RV15)

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