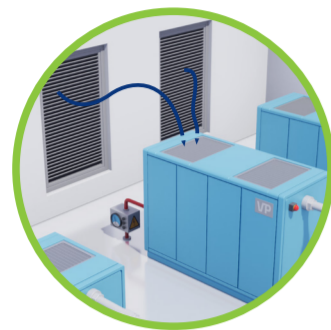


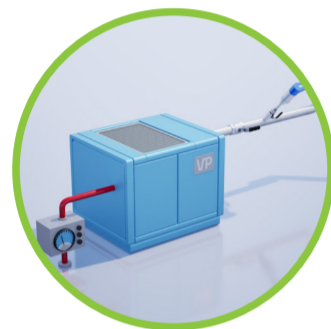
MEASURE, DISCOVER, SAVE (THE WORLD)



Let's be cool

> Breathe cool, fresh and clean air

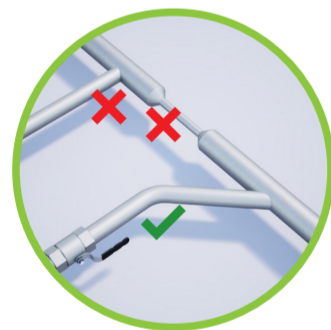
A compressor converts 90% of its power into heat. The compressor room heats up, while a compressor uses less energy to compress cold air. (3°C cooler air, already results in 1% energy saving.)



What do you need?

> Monitor and optimize your efficiency

Efficiency, the ratio between compressor output and kW input, is the key performance indicator of choice to optimize maintenance strategy and costs.



Create a smooth ride

> Reduce the pressure drop

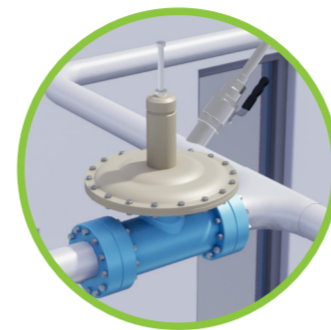
A properly designed piping system allows air to flow smoothly. This results in less pressure drop. Use angular feed-ins at the main header. Avoid T-pieces and elbows as much as possible. Keep the average velocity in the pipe as low as possible. Use proper sized filters and driers. 0.1 Bar pressure drop over the filter requires 0.7% additional energy to maintain system pressure.



Get the complete picture

> Measure, monitor and manage

VPVision monitors your entire compressed air system from supply side to demand side. It can also be used as a complete energy management system for any plant seeking to sustain and improve the energy efficiencies they have achieved.



Relax and save

> Reduce the pressure

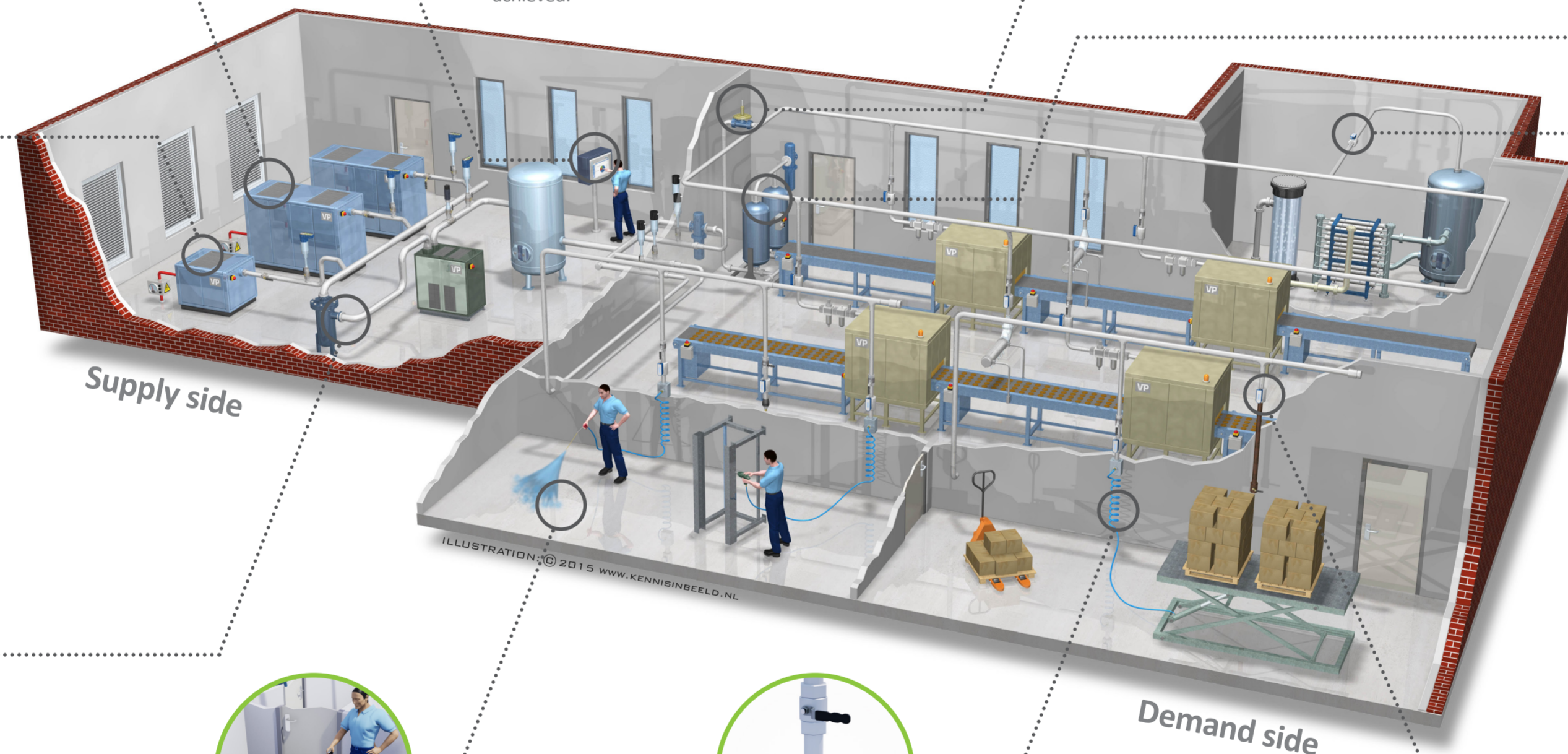
Every overall 1 bar pressure reduction gives an instant win of 7% on your energy consumption. You can also invest in pressure regulators per production area to reduce artificial demand.



Don't overdo it

> Be selective with air quality

If one sub-process needs an extra low dew point, place the adsorption drier at the entry point of that sub-process only.



Close the loop

> Measure the right ways

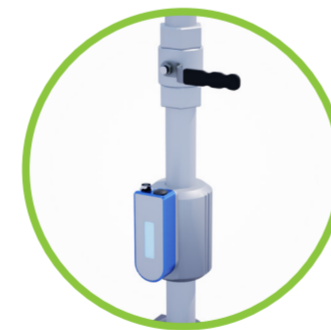
In ring networks and large compressed air systems with multiple receiver tanks, you need bi-directional flow meters to measure reverse flow.



Be smart

> Think of alternative uses

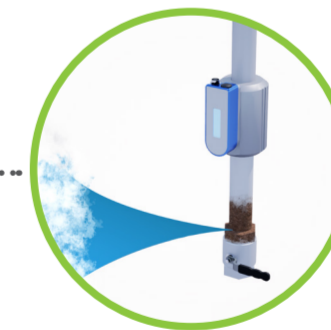
Do you really need a compressed air powered tool? Electric tools might be a better choice for some areas in your plant.



Air isn't free because it's there

> Shut off sections or machines when not in use

A simple manual or motorized shut off valve can save thousands of Euro's/ Dollars. Make sure that the air is not lost through leaks, or through machines blowing off in idle position (for example vacuum nozzles or air knives). Flow meters help determine where and when money is lost during standstill of machines.



Boost your profit

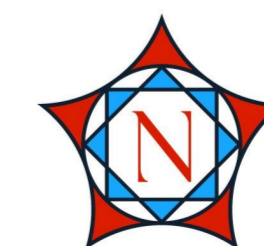
> Manage your leakage

In general there is 20-40% leakage in a compressed air installation. 0.5 Bar lower system pressure reduces air consumption with 4%. Invest in an ultrasound leak detector to find the leaks.



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NEXPRIENG



Instrumentation & monitoring solutions for your industrial utilities

VPINSTRUMENTS

VPInstruments offers industrial customers easy insight into energy flows. We believe that industrial energy monitoring should be easy and effortless to enable insight, savings, and optimisation.

VPInstruments products are recommended by leading energy professionals worldwide and offer the most complete measurement solution for compressed air flow, gas flow, vacuum and electric energy consumption. Our monitoring software VPVision can be used for all utilities including air, water, steam, gas and more. We enable you to see where, when and how much you can save.



4 VPFLOWSCOPE® DP

4-in-1 flow meter: Bi-directional mass flow, pressure, temperature, total flow. For hot and saturated conditions like in the discharge pipe of a compressor. Combine the patented VPFlowScope DP with a power meter and measure compressor efficiency.



6 POWER

Easy insight into power consumption. Permanent and mobile solutions. Measure up to all 3 phases. General purpose power measurement; monitor compressor efficiency; measure other large electrical consumers.



1 VPVISION

Real-time energy monitoring for all your utilities. On-premise data storage with a web-based interface, cloud enabled for easy access from anywhere. Automated reports with e-mail function and alarm messages. Flexible and scalable. Also available in a rugged explorer case for easy plant system audits.



2 VPFLOWSCOPE® M

Industry 4.0 ready. 4-in-1 flow meter for dry, clean measurements: Bi-directional mass flow, pressure, temperature, total flow. Besides traditional features, also with Ethernet and alarm function. Its patented VPSensorCartridge reduces recalibration to a simple exchange.



3 VPFLOWSCOPE® IN-LINE

4-in-1 flow meter, ideal for point of use. It is perfect for smaller diameters where it produces all the data you need to optimize your air and/or gas consumption. Measures bi-directional mass flow, pressure, temperature, total flow in one.



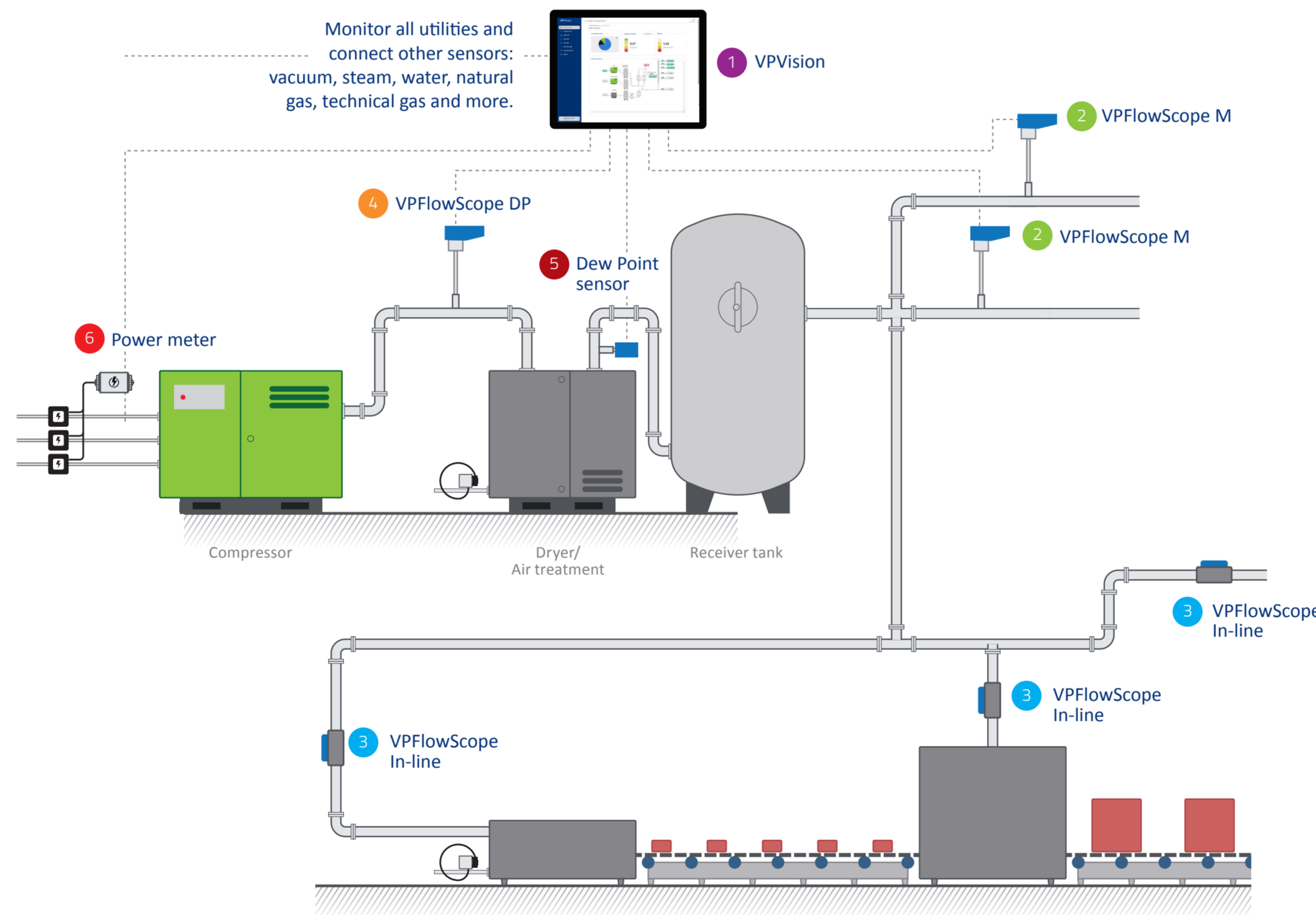
5 DEW POINT

Safeguard your equipment and production process by monitoring the dew point of your air and/or gas. Wide range applications: monitor the air quality of both refrigerant and desiccant type air dryers. Robust, smart and with autocalibration functionality.



INSTALLATION

Create your installation points under pressurized conditions with VPInstruments hot tap drill.



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