VPFlowScope M Thermal Probe P220

VPFlowScope M goes Mini!

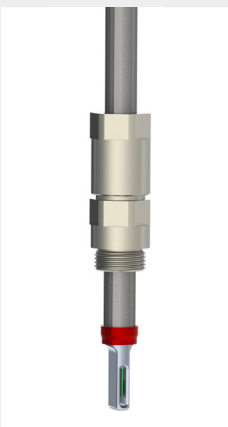
The VPFlowScope M Thermal Probe family is extended with a new edition, the P220. This model has all the benefits of the VPFlowScope M. Thanks to its optimized design, you can now use the probe down to 1-inch pipe sizes with maximized accuracy and low pressure loss.

The VPFlowScope M is a four-in-one insertion flow meter for compressed air and technical gases. It can be installed under pressure and measures mass flow, pressure, temperature, and total flow simultaneously. With its VPSensorCaridge™ principle, recalibration is just a matter of a simple exchange. There's no loss of downtime and it saves costs on shipment.

Designed and produced in the Netherlands

Applications

> Demand side compressed air monitoring
> Industrial gas monitoring (air, nitrogen, carbon dioxide, argon and other dry, non-corrosive industrial gases)
> Air audits
> Submetering of compressed air
> Ring networks (bi-directional)
> Cost allocation
> Leak detection
> Point-of-use measurement



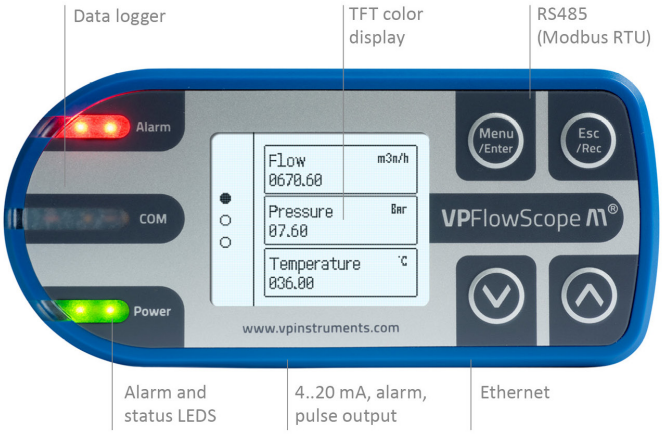
Optimized design

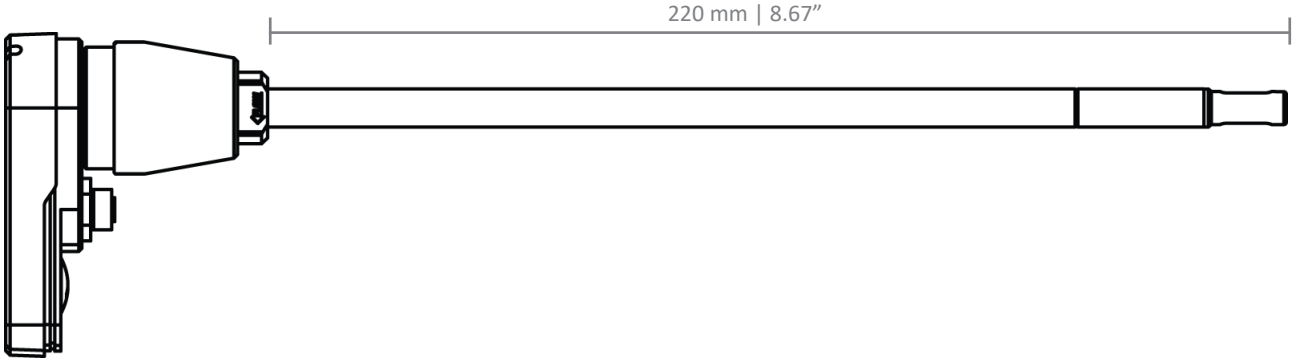
The newly designed sensor tip of the VPFlowScope M P220 ensures an ultra-low blockage factor, resulting in minimized pressure drop over the sensor. As a result, this model can now be used down to 1-inch pipes with maximum accuracy.

At all times, safety should be a top priority. That is why the VPFlowScope M P220 features an improved safety coupling, allowing for safe insertion under pressure. With this enhanced safety feature, the installation process is even quicker and easier.

Highlights

> 4-in-1 sensor: flow, pressure, temperature and totalized flow
> Patented Thermabridge™ technology
> Ultra low blockage factor enables accurate measurements down to 1 inch
> Improved sensor design for even higher accuracy
> Standard Ethernet (Modbus/TCP), RS485 (Modbus RTU), 4..20mA and pulse output
> Optional display with real-time information and configuration keys
> Optional data logger
> Patented VPSensorCartridge®: no more recalibration required
> Bi-directional flow measurements (optional)
> For dry, clean gas measurements



VPSENSORCARTRIDGE P220	
Flow sensor measurement principle	Thermabridge™ Thermal mass flow
Flow range	0 (0.5)..150 m_n/sec | 0..500 sfps
Measures	Bi-directional mass flow, pressure, temperature, total flow
Accuracy	2% of reading under calibration conditions; Recommended pipe diameter: 1 to 3 inch.
Gases	Dry compressed air, nitrogen and inert, non condensing gases
Temperature range	0 .. +60 °C | 0 .. +140 °F
Pressure range	0 .. 10 bar | 0 .. 145 psi gage
Probe length	220 mm | 8.67”

TRANSMITTER	
Display type	1,8” TFT with auto power save. Optional
LED status	LED indicators on all models for power, communication and alarm
Data logger	Optional
Outputs	4 .. 20 mA/ pulse, RS485 (modbus RTU) and Ethernet (Modbus TCP)
Protection grade	IP65 | NEMA 4