

# DPV-Net Air Velocity



The DPV (differential pressure velocity) sensor measures air velocity by comparing input/ output pressures. It has no moving parts and is intended to be used in very dirty areas with high air velocities.

The DPV-Net is designed to work directly on the Sperosens Lonworks network and requires no external transceivers. Various velocity options are available.

## KEY FEATURES

- Low power
- Up to 30m/s range
- Well suited to harsh environments
- Ruggedized Design

## APPLICATIONS

- Air speed monitoring
- Mine ventilation monitoring

## PRODUCT INFO

### DPV-Net range options

| Type     | 5 m/s    | 10 m/s   | 15 m/s   | 20 m/s   | 30 m/s   |
|----------|----------|----------|----------|----------|----------|
| Part No. | SP001059 | SP001060 | SP001061 | SP001011 | SP001067 |



# DPV-NET AIR VELOCITY SENSOR

## FUNCTIONALITY

- The DPV-NET Air Velocity sensor measures air velocities (wind speed).
- The sensor measures the differential pressure created by the movement of air across an obstruction. The differential pressure changes proportionately to the change in air speed.
- The sensor has no moving parts and the pressure sampling does not require air to pass through narrow ports. The sensor performs reliably for extended periods of time in very harsh environments.
- The electronic enclosure of the DPV-NET is ingress protected to IP 65 against dust and water.

## SPECIFICATIONS

|                        |                                |
|------------------------|--------------------------------|
| Measuring Range:       | Up to 30 m/s                   |
| Output Type:           | Lonworks PL20                  |
| Accuracy:              | Within 5% of measured velocity |
| Supply:                | 18 - 30VDC (PL20)              |
| Analog Output Signal:  | N.A                            |
| Electrical Protection: | Fuse protection on power input |
| Warm Up Time:          | < 30 sec                       |
| Life Expectancy:       | More than 10 years             |

## CERTIFICATION

### Ex Protection:

Not applicable

## MECHANICAL SPECIFICATIONS

**Physical Dimensions:** 220mm x 220mm x 120mm  
**Weight:** ± 2.9 kg

## ENVIRONMENTAL SPECIFICATIONS

**Water and Dust:** IP 65  
**Temperature:** -10 °C to +55 °C