

DPV201

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 DPV201 is designed to interface with 0-1mA controllers. 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

DPV201 range options

Type	5 m/s	10 m/s	15 m/s	20 m/s	30 m/s
Part No.	SP001056	SP001057	SP001058	SP01014	SP001066



DPV201 AIR VELOCITY SENSOR

FUNCTIONALITY

- The DPV201 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 DPV201 is ingress protected to IP 65 against dust and water.

SPECIFICATIONS

Measuring Range:	Up to 30 m/s
Output Type:	Current loop (mA)
Accuracy:	Within 5% of measured velocity
Supply Voltage:	12 - 30VDC
Power consumption:	1.5W average
Analog Output Signal:	0-1mA
Electrical Protection:	Fuse protection on power input
Warm Up Time:	< 30 sec
Life Expectancy:	More than 10 years

CERTIFICATION

Ex Protection:

Ex ia I – to be used behind a suitable safety barrier

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