

## VentGuard

### Applications

#### Underground Mining:

- Vent Door Monitoring
- RAW and Air Intake Monitoring
- Air Flow and Direction Monitoring

#### Open Cast Mining:

- Environmental Monitoring
- Wind Speed and Direction Measurements

#### Unique Features:

- Alarm and Status Indication via Visible RGB LED's
- Two Programmable Wind Speeds and One Programmable Wind Direction Alarm
- Omni Directional and Bi-Directional Modes Available
- Suitable for Underground
- Various Mounting Options
- Two Configurable 4-20 mA Outputs for Wind Speed and Direction
- Detailed Information via RS485 and MODBUS RTU





## Technical Specifications

### Wind Speed:

Range	Accuracy	Resolution	Response Time	Units of Measurement
0 – 40 m/s	5% or 0.2 m/s (whichever is greater)	0.01 m/s	0.1 seconds (minimum)	m/s

### Wind Direction:

Range	Accuracy	Resolution	Units of Measurement
0 - 359°	10° from actual	1°	Degrees

### External Interfaces:

RS-485	4-20mA Speed	4-20ma Direction
MODBUS RTU protocol. Transmits speed, direction, alarm outputs, system status and error information.	Transmits speed. Configurable full-scale value.	Transmits direction. Full-scale value of 359°

### Environmental:

Protection Class	Operating Temperature	Operating Humidity
IP65	-10 °C to 60°C	<5% to 100% RH

### Additional Features:

Programmable Alarms	LED Indicators
The unit features two programmable speed alarms and one programmable direction alarm.	The unit features RGB LED indicators that are used to indicate the state of the unit, as well as any triggered alarms.

### Mechanical:

External Material	Size	Weight
Makrolon 6557 (Polycarbonate)	100mm x 110mm (excluding mount)	340g

### Power Requirements:

Input voltage	Current
24V	50mA

### Certification:

Intrinsic Safety	EMC	Ingress Protection
EX IA Ma IP65 - Zone 0, Group I	IEC 61326-1	IEC 60529