

Pillard Windcross™

Ultrasonic anemometer for Road and Railway tunnels



Wind velocity measurement unit ensuring optimized ventilation and safety

- Accurate measurement along large path and flow velocity
- Remote access with digital communication
- Stainless steel durable conception
- Alignment laser integrated for easy installation
- No calibration required on site
- Typical interval maintenance > 1 year

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ULTIMATE TECHNOLOGY WITH A LIMITED INVESTMENT

Pillard Windcross™ propose Ultrasonic technology to measure wind velocity and direction. The Ultrasonic technology is based on sound propagation through the air; two transducers are alternately transmitters and receivers. The outward and return transit times induced by the air flow are measured. Using the time difference, the internal calculator measures the wind speed and direction compared to its reference axis. The measured value allows automatic activation of ventilation when required.



GENERAL CHARACTERISTICS

| | |
|---------------------------------------|---|
| Power supply | 20V DC to 48V DC -15% / +10% |
| Power consumption | 6W |
| Operating temperature | -40 to +80°C |
| Analog output signal Binary output | 2 x 4/20mA - 300 Ohms max 2 x contact relay max 50V/1A |
| Digital output | 2 x RS485 Modbus RTU Ethernet Modbus TCP, HTML |
| Protection | IP65 |
| Dimensions | 260 x 1180 x 130 mm (housing) |
| Weight | Cabinet 2,2 Kg / Transducer 1,2Kg |
| Material | Stainless steel (316L / X2CrNiMo17-12-02 1.4404) |

SENSOR

| | |
|----------------------|---|
| Distance transducers | 1 to 18 meters |
| Angle transducers | 30° to 60° |
| Velocity range | -40 to +40m/s |
| Velocity accuracy | +/- 0,05m/s |
| Bracket | Stainless steel (316L / X2CrNiMo17-12-02 1.4404) |

CONSOLE

| | |
|------------|--------------------------|
| Display | Oled |
| Resolution | 128 x 128 |
| Controls | Keypad with push buttons |

CERTIFICATIONS AND STANDARDS

| | |
|------------|----------------------------------|
| Compliance | ECM directive 2014/30/UE, (2015) |
|------------|----------------------------------|

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ADAPTABLE SOLUTION

Pillard Windcross™ is adaptable to difficult weather conditions including sub-zero temperatures up to -40°C.

SAFETY AND PROTECTION

- Guaranteed comfort and safety
- Protects users with smoke extraction in the case of fire
- Ensures good visibility for rescue operations and fire-fighting
- Avoids an oxygen supply to the fire.

EASY INSTALLATION

Pillard Windcross™ is optimized mounting device with key benefits for operators.

- A simplified installation thanks to alignment laser integrated in the sensor
- A separate electronic allowing a remote configuration
- Remote access thanks to digital communication

EASY MAINTENANCE

Pillard's Windcross™ requires just simple cleaning twice a year with a soft tissue to ensure anemometer efficiency.

CONTACT

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