

15.HY-WDS21E Tunnel Ultrasonic Wind Sensor

HY-WDS21E wall-mounted ultrasonic wind speed and direction sensor is specially designed for the tunnel application, it's installed on the tunnel wall and providing real-time tunnel wind data to total control room, as a basic basis for ventilation and operation. At the same time, the analog and digital signals output from sensor can be connected to the PLC in the nearby sub-control room and then to the general control room through optical fiber.

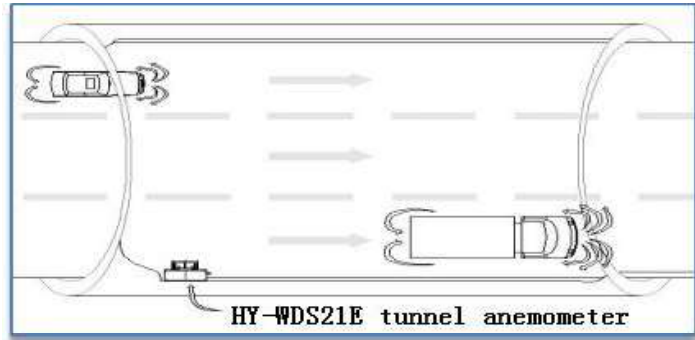
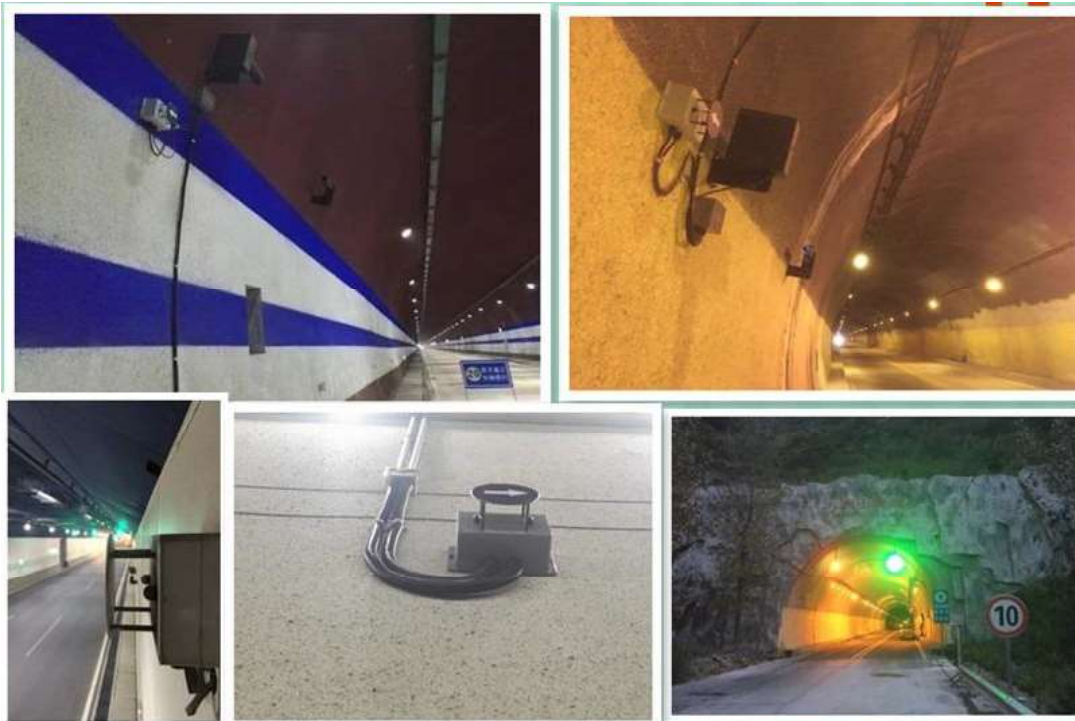


Figure 1 HY-WDS21E tunnel wind sensor

Main Features

- 1. Cast aluminum body, anodized surface for harsh environments in the tunnel
- 2. Ultrasonic measurement free from influence of ambient temperature
- 3. Non-contact detection, no moving parts, reduce the failure rate.



Technical Parameters

Principle	Ultrasonic time-difference technology
Installation	Wall of tunnel
Range	Wind speed -30m/s~30m/s(other range can be customized)
Resolution	0.1m/s
Accuracy	±2%
Digital interface	RS232 , RS485
Signal output	Wind Speed: 4-20 mA output(load < 500Ω)
	Wind Direction: Relay output(three terminals NO or NC)
Protocol	ModBus
Power supply	100~220VAC±10% , 50Hz/60Hz
Protection Grade	IP66
Operating temperature	-45℃ - +75℃
Operating humidity	0 - 100%
Power consumption	1W

Specifications may be subject to change without prior notice.