

**WIND SPEED AND WIND DIRECTION SENSORS TS231, TS232****WIND SPEED AND WIND DIRECTION SENSORS TS231, TS232**

- **Excellent sensitivity**
- **High accuracy.**
- **Built in stainless steel.**

The TS231 and TS232 wind speed and direction sensors are intended for a wide range of applications.

They are built with stainless steel bodies and with moving parts that turn on armored stainless steel bearings. This ensures the measurement of both light breezes and very high intensity gusts.

The Model TS 231 wind intensity sensor is composed of a three-cup system with an optical rotation detector that produces an analogue output and a frequency output proportional to the speed.

The Model TS 232 wind direction sensor consists of a dynamically balanced wind vane whose angular position is measured by a magnetic potentiometer without mechanical contact.

This system enables high sensitivity and a virtually zero deadband.

**SPECIFICATIONS TS231\***

**Range:** 0-60 m/s. Other ranges upon request

**Accuracy:**  $\pm 1$  % F.E.

**Temperature range:** -30 °C to + 60 °C.

**Output:** Analog and pulse. 0-4 V; 0-350 Hz

**Cups:** 3 cups 52 mm diameter

**Turning radius:** 92 mm

**Dimensions:** 237 mm x 60 mm in diameter

**Used materials:** AISI 304 stainless steel, bronze, aluminum and synthetic material.

**Power Supply:** 9 to 16 Vcc (typical 12 Vcc)

**Power consumption:** 10 mA in 12Vcc

***These sensors are supplied with 15 m long cables.***

**TS232\***

**Range:** 0° - 360°

**Accuracy:**  $\pm 3$  °

**Dead Band:** 3°

**Temperature range:** -40 °C to + 60 °C.

**Output:** 0,2 to 3,8 Vcc.

**Turning radius:** 250 mm

**Dimensions:** 237 mm x 60 mm in diameter

**Used materials:** AISI 304 stainless steel, bronze, aluminum.

**Power Supply:** 9-16 Vcc,

**Power consumption:** 28 mA in 12Vcc

**ACCESSORIES**

- Anemometric support arm for tower mounting, model AS 237

- Heater, model AS 233 Includes power supply and electronic thermostat

*\*Other specifications and ranges available upon request.*