

## TVV10-28: WIND SPEED INDICATOR



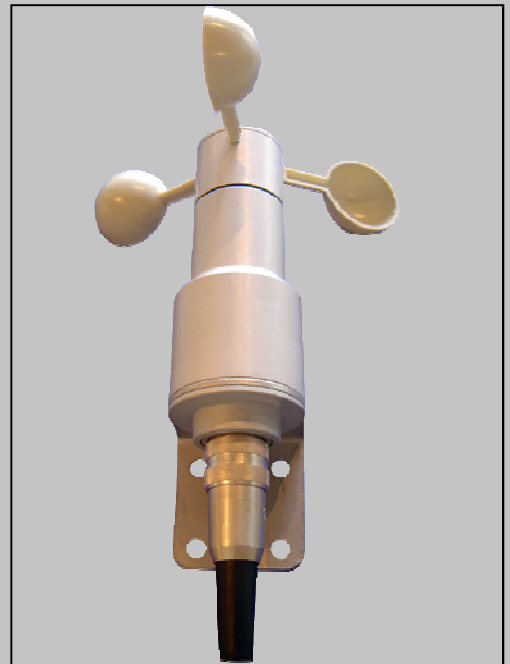
The wind pressure is an extremely important variable for stability calculation of lifting machines. Present machine automation is taking in charge wind speed in order to improve static performances of the lifting machine. Anemometer represent an optimal solution for wind speed concerned applications.

TVV10-28 is a mechanic wind speed sensor with plastic cup fan. The sensor is built in an lightweight anodised aluminium body.

The rotor is assembled on low friction ball bearing AISI 620. Accuracy is granted by an Digital Optic sensor with 12 pulses per rev resolution. The sensor is installed by means of AISI 304 stainless steel flange. Low inertia rotor grants maximum speed sensibility thanks to polymeric lightweight driving cups.

Electric connection by means of screw-in connector

Average measurement error: 0,92%



### DATA SHEET

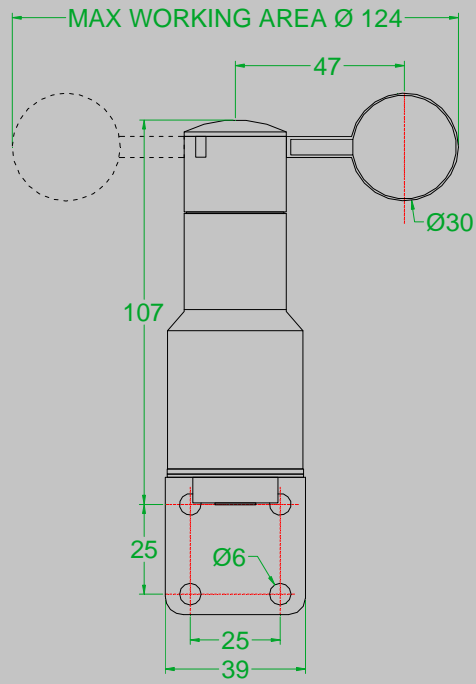
#### ***Operating wind speed range detection:***

- Min speed: ~ 5 Km/h (linear regression error 23%)
- Max speed: ~ 150 Km/h \* (linear regression error not available)
- (NB. Both mechanic and electronic can detect up to 180 km/h over 155 km/h the accuracy of the sensor is not certified,)

#### **PARAMETERS:**

- Power supply: 10 ÷ 28 Vdc
- Power consumption: 13 ÷ 32 mA
- Output signal: 0 ÷ 28 V / square wave
- Current output: 3,7 ÷ 10,2 mA
- Resolution: 12 Pulses Per Revolution
- Operating temperature: -20°C ÷ 80°C (-4°F ÷ +176°F)
- Weigh (complete sensor): 0,26 Kg

**MECHANICAL DIMENSIONS:**



For a proper functioning, the device must be installed vertically:  $90^\circ \pm 3^\circ$