WINDCRANE™
Wind Speed Sensor

Anemometer for WINDCRANE wind monitoring system

Technical Specification

The WINDCRANE anemometer is a tough, high-performance wind speed sensor for use with the WINDCRANE wind monitoring system. It is easy to install and provides reliable, accurate wind readings.

The sensor is constructed of durable damage-resistant materials.

The sensor is supplied with mounting hardware (mounting foot or tube and clamp) for easy installation onto a bracket/plate or tubular pole stub mast.

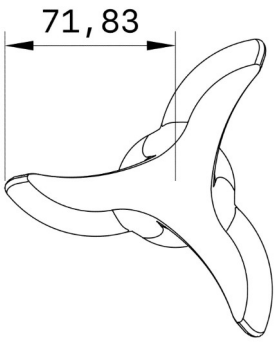
Connection to the WINDCRANE logger unit is via pre-wired shielded cable pigtail and rugged weatherproof M12 industrial connectors.

Mechanical

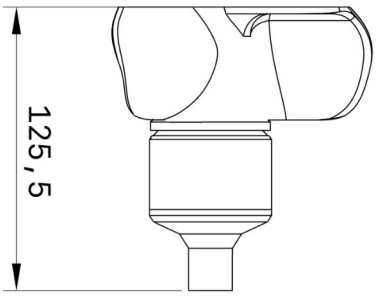
Materials	TPE flexible composite rotor, composite body. Stainless steel shaft and bearings.
Dimensions	Sensor height 125 mm (tube mount version) or 117 mm (plate/bracket mount). Rotor diameter 144 mm. Mount tube length 250 mm.
Mounting	12.7mm diameter tube and clamp bracket to suit mounting onto 35-51 mm diameter tubular pole. OR flat mount triangular base with 3no 5mm holes, 120° spacing on 29mm radius.
Working temperature	-40 °C to +60 °C
Weight	0.8 kg incl. mounting bracket and 1.5 m cable tail.

Electrical / Measurement

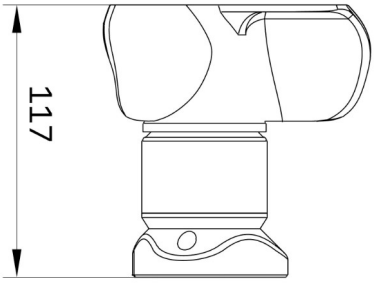
Sensor	Magnetic switch with frequency pulse output
Measurement range	0.5 - 50 m/s (2-180 km/h, 1-112 mph)
Accuracy	2% ±0.2 m/s (2% ± 0.5 mph, 2% ±0.7 km/h)
Power	Passive sensor, powered from WINDCRANE logger 30 V, 20 mA max switching, 1 kΩ series resistor
Connection	M12 4-pole male connector, pre-wired 1.5 m cable.
Output Signal	One contact closure per revolution. Frequency linearly proportional to wind speed. Speed m/s = [1.1 x Hz + 0.3] nominal (conversion from frequency signal to wind speed units is handled by WINDCRANE system)



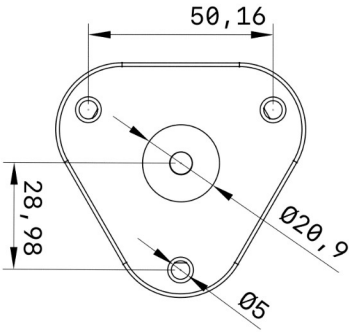
Top view



Side view (pole mount)



Side view (plate/bracket mount)



Base dimensions

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