METEOROLOGY
HYDROLOGY
ENVIRONMENTAL MONITORING

Combined wind speed and wind direction sensor

Description

The sensor consists in a combined anemometer for measuring of wind speed and direction, developed on wind vane and cups rotor traditional technologies.

The body of the sensor is made of polycarbonate, while for assembly it is used stainless steel bolts to ensure correct durability. For the stabilization of the vane has been inserted a brass tip.

The transduction of the physical quantities is through a hall effect sensor associated with the cups rotor and to a low friction potentiometer connected to the vane.

The sensor is suitable for use in different operative field; it can withstand to strong storm winds and, at the same time, detect breezes of limited intensity.

The sensor is supplied complete with support for poles diameter 32 ... 50mm and with 12m of cable.

Anemometer

Anemometer - Typical application

Technical specifications may be varied without prior notice

MTX S.r.l.
Via Zamboni, 74 – 41011 Campogalliano (MO) (I)
Tel. +39 059 2551150
C.F. - P.IVA - R.I. 04343730281
R.E.A. MO 370886
Capitale Sociale: € 100.000,00 i.v.
web: www.mtx.it – e-mail: sales@mtx.it – PEC: mtxsrl@pec.mtx.it

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Technical Specifications

GENERAL FEATURES	
Operating Temperature	-40 … +65°C
Sensor Type	Wind Speed: Solid state magnetic sensor Wind Direction: Wind vane and potentiometer
Cable Length	12m
Materials	Wind Vane and Control Head: UV-resistant ABS Wind Cups: Polycarbonate Anemometer Arm: Black-anodized aluminum
Dimensions	381mm x 38mm x 457mm
Weight	1.332Kg
WIND DIRECTION	
Potentiometer	20KΩ
Accuracy	±3°
WIND SPEED	
Resolution and Units	0.1m/s
Range	0.5 ... 89m/s
Accuracy	1m/s or ±5%, whichever is greater

Ordering code

Combined wind speed and wind direction sensor	**PCTAN020**

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Ver. EN.1.1. 07/09/2023