

anemometers

MAX 40

anemometer

model MAX 40/ MAX 40+/ MAX 80+

general information

The standard MAX 40 anemometer has proven to be a **rugged, reliable and highly accurate anemometer**. **Professional quality** at a minimum price.

Its low moment of inertia and unique bearings permit very rapid response to gusts and lulls. The unique bearing system is self-lubricating and moisture or dirt will not destroy the bearings or degrade the performance (self cleaning). Moreover the anemometer is highly resistant to icing, even without optional heating. Many thousands of units are operating world-wide. This anemometer meets the requirements of the WMO, IEC and IEA 1). The upgraded anemometers types **MAX40+/MAX80+** have been designed using MAX40 components, with improved reliability (internal soldered wires, stainless steel mounting) and is intended for wind research & monitoring applications.

An optional **individual** calibration certificate is available, using:

- * the standard calibration procedure (low cost)
- * the European MEASNET procedure, with 0.1 m/s calibration accuracy



The **high performance MAX80+** anemometer has a **double resolution** compared to the MAX40+ anemometer and is standard supplied with MEASNET calibration certificate (example available on request). No power-supply needed.

The ideal wind sensor for stand alone applications.

technical specifications

material	cups and housing black lexan (polycarbonate), which is non-corrosive, u.v.-resistant and virtually shatterproof
bearings	modified teflon, self lubricating (no freezing or sticking), drum proof: O-ring mounted. Easy to replace (within 5 years of operation)
shaft	fully hardened beryllium copper
dimensions	3 conical cups cross section 5 cm, 19cm diameter of the rotor
endurance test	at Washington Observatory
maintenance	clean inside once a year in environments with a lot of dust or sand
heating	optional KAPTON isolated heating
maximum windspeed	recorded up to 97 m/s, without damage of the anemometer
temperature range	- 50 to + 65 C (even without heating)
humidity	0 to 100 % R.H. (tropical resistant)
electrical puls system	standard electromagnetic puls generator, optional: Hall generator, reed contact
power consumption	standard zero
calibration	according to measurements at the Eindhoven University of Technology, The Dutch Meteorological Institute (KNMI) and the National Aerospace Laboratory (NLR), The Netherlands and MEASNET procedure
calibration certificate	optional individual calibration certificate available 0.1 m/s accuracy (MEASNET) Jstandard 2.9 meter
distance constant	
effective dynamic start speed	appr 0.35 m/s
stub mounting mast	standard: Aluminum: Plus version: steel
cable length	specify required cable length standard no cable, PLUS versions 2 meter inside soldered cable
cable type	standard cable: 2 wire cable, special cable: coax RG 58CU or shielded twisted pair or 6 wire shielded cable type P3MS for combination with wind vane and connection box
connection box	optional connection box for easy connection of cable close to the sensor



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