STANDARD ANEMOMETER

ANEMOMETER types: MAX 40 / MAX40+

Now also with available with 4..20 mA output!

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+ has been designed using MAX40 components, with improved reliability (internal soldered wires, stainless

steel mounting) and is intended for wind research & monitoring applications, especially for use with WINDLOGGER EKO21B or WINDTRANSDUCER EKO22CN or with integrated 4..20 mA output!

An optional individual calibration certificate is available, using:
* the standard calibration procedure (low cost)
* following the European MEASNET procedure, with 0.1 m/s calibration accuracy

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 (testreport available)
* 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 pulsgenerator, 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)
* distance constant: standard 2.9 meter
* effective dynamic start speed: appr 0.35 m/s (compensated in windlogger EKO21B and wind transducer EKO2CN)
* 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
* bracket *): optional bracket available (single or combined with vane)
* signal conditioning*) : optional EKO 22CN with two wire 4..20 mA
* read-out units *):
  - Sirocco, moving coil meter, direct connection, selfpowered
  - EKO 2FN-C3 (windrun/max speed/instantaneous speed/clock)

REFER ALSO TO DATALOGGER SYSTEMS EKO 21B *)

Special anemometers :

- Professional models (eg from Climatronics)
- acoustic anemometer (Solent/Gill)
- solid state anemometer
- sodar systems for wind research

1) World Meteorological Organisation (WMO)
International Energy Agency (IEA).
International Electrotechnical Commission IEC 61400-12
*) Refer to separate data sheet

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