

Anemometer

Brass Housing, Rotor of Stainless Steel

Type INA-10A

DWC



- ✓ Anemometer for inductive sensors
- ✓ System for offshore, arctic and other extreme conditions
- ✓ Measuring range: < 1 to 30 m/s
- ✓ Customized output: NPN, PNP, Namur or Fiber optic
- ✓ Up to 3 standard sensors per instrument
- ✓ Heating units: 1 or 2 x 50 W, 24 VDC
- ✓ European patented no. 0813066

Product Description

The anemometer is made of brass, and is therefore very impervious to weather. It can be delivered with heating units, which ensure faultless function under extreme weather conditions. The anemometer can be configured to individual specifications. The system is frictionless, which gives very high accuracy. It is possible to replace the sensors and heating units externally, without disassembling the anemometer.

Specifications

Measuring range	2 to 30 m/s Type test DTI Minimum speed 2 m/s Maximum speed > 60 m/s
Resolution	0.1 m/s (standard) 0.1 - 0.2 to 1.0 m/s (special)
Rotation	1.0 m/s (1.0 rotation)
Output frequency	10 Hz/m/s (standard)

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Output Specifications		Dimensions	
Sensor type	M8 standard inductive sensor, 10-40 VDC, PNP, NPN, NAMUR	Cup, diameter	180 mm
No. of sensors	3 (possibility for security system)	Anemometer, height	153 mm ± 50 mm (Sensor included)
		Anemometer, diameter	Ø60 (body)
		Packaging	28 x 28 x 22 cm

Materials	
Body	Brass (CuZn39Pb3-MS1658-04)
Rotor	Stainless steel (AISI 316)
Ball bearing	Stainless steel (INA 626.2 Z VA)
Rotor/housing tightening	Patented labyrinth
Environment	Operating temperature -25 to 70°C (-13 to 158°F) Storage temperature -25 to 120°C (-13 to 248°F) Heating system > -25°C (> -13°F) Climatic protection Against high humidity, salt and dust
Mounting	Mounting hole M12. Fasten 30Nm
Weight	(without sensors and heating) Approx. 1340 g

Mode of Operation

The anemometer is usually placed approx. 10 m above ground level. It must be placed in a position where it is unimpeded by buildings and other wind-suppressing obstacles, so that turbulence at the instruments is reduced as much as possible.

Anemometer and adaptor must be mounted under observance of reliable craftsmanship and must be fastened in a way so that they present no danger to persons or goods, even at extreme blasts of wind. The pole and other devices forming part of the system must be effectively mutually connected to earthing systems for lightning protection and equipotential bonding.

Dimensions

