

SPECIFICATIONS

AN2/AN4 Output: Wind speed in metres/second

AN2/AN4 Range: 0.2-60 m/s
(0.72km/h to 220km/h)

AN2/AN4 Starting Threshold: 0.1m/s

AN3/AN5 Output: Wind speed in m/s + standard deviation

AN3/AN5 Range: 0.5-75m/s
(1.8-270km/h)

AN3/AN5 Starting Threshold: 0.2m/s

Resolution: 0.001m/s

Accuracy: +/-2%

Temperature Range:

-20°C to +60°C (with heater)

+1°C to +60°C (without heater)

Humidity Range: 0-100%

Sensor Type: Contactless inductive device

Reliability: Expected operating lifetime > 1 billion revolutions

Output: Serial data ASCII format plus, either voltage 0-1 or 0-2.5V, or frequency +5V pulse (2-10Hz)

Options: 4-20 mA

Power requirements:

Power Supply: 5-28V DC unregulated

Current Drain: < 1mA

Cable lengths:

Standard cable length 0.2m

Maximum cable length 4km using Monibus communications

Mounting:

Mounts on an MK9 standard cross-arm. Alternative mounting options are 25mm BSP adaptor or 10mm bolt fitting

Sensor dimensions:

Height: 195mm (incl. spigot)

Cup Diameter: 65mm

Arm Radius:

Model AN2: 154mm

Model AN3: 91mm

Weight: (unpacked)

Model AN2: 225g

Model AN3: 210g

Related products:

EnviroStation™ Automatic Weather Station

SL5 Smart Logger

WD2 Wind Direction Sensor

SR2 Solar Radiation Sensor

TA1 Air Temperature Sensor

HU1 Relative Humidity Sensor

SI8 PC Interface Module

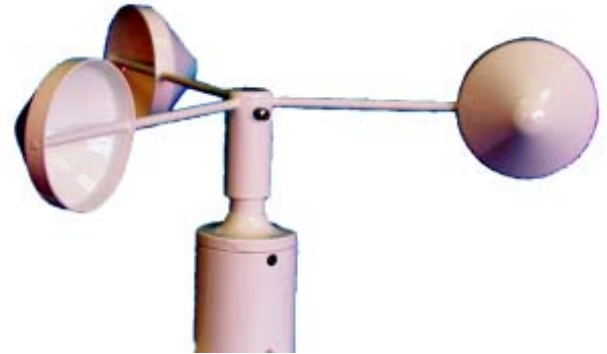
Wind speed sensors

Used to monitor wind speed, wind run and wind gust, ICT International's range of "smart" digital wind speed sensors combine robust design with accuracy and a low starting threshold for sensitivity in a wide range of operating conditions.

The three conical aluminium anemometer cups have been developed to provide an approximately linear relationship between rotational speed and actual wind speed.

An internal electronic gear box provides a digital change-of-state output as a measure of wind run. One pulse represents 10m of wind run. However, special orders can be supplied for progressions from 0.625 to 160m of wind run per pulse.

The AN2 and AN4 have longer arms on the anemometer cups and are for applications where the emphasis is on sensitivity - they have a starting threshold of 0.1m/s. The AN3 and AN5 have shorter arms and are intended for use in areas where higher wind speeds prevail.



Advanced functionality

ICT's "smart" anemometer range of sensors is designed for use with a variety of electromechanical and electronic counters or analogue data loggers.

All models incorporate an integrated 16-bit microprocessor capable of providing dual signal outputs, plus alarm and control outputs. When operated with an ICT Smart Logger, the anemometers offer true "plug and play" functionality without the need for programming.

The AN4 and AN5 models, offer even greater functionality as the sensor can also calculate the standard deviation over a preset period that can be set in the sensor. The standard deviation is then available as an independent output from the sensor and is available when used with either the Smart Logger or other analogue data loggers.

Applications

- Meteorology
- Wind profiling
- Evaporation monitoring
- Crop studies and agronomy
- Air pollution and plume monitoring
- Wind speed alarms
- Emergency services
- Building construction research

Features

- Low starting threshold
- Multiple mounting options
- High accuracy relative to cost
- Corrosion-resistant finish
- Low-friction bearings for long life
- Water-resistant design
- Excellent dynamic characteristics

Quality assurance

ICT International products are manufactured under a third party accredited ISO9002 system.

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