

Model A75-302

Wind Vane

Document 1877D

Applications

- Meteorological studies
- Wind direction sensor for wind data loggers
- Yaw control on wind turbines
- Environmental monitoring
- Crane and lift operations wind monitoring

Features

- Simple mechanical construction
- Long life, industrial/commercial grade potentiometer
- Corrosion resistant materials
- Multiple mechanical and contact seals
- Very stable and smooth response to wind changes
- Fully balanced sensor vane
- Designed to minimize icing.



Specifications

Range: Direction - 360 degrees continuous rotation

Threshold: Approx. 1 m/s (2.2 M.P.H.)

Gust Survival Speed: 134 M.P.H. (60 M/S)

Materials: Tail Black UV stabilized injection molded polycarbonate Housing: Conductive Black UV stabilized polycarbonate Balance weight: bronze Terminals: three #4-40 brass studs with nuts Potentiometer: aluminum shaft in sealed precision grade, stainless steel ball bearings, conductive plastic potentiometer element mounted in a machined aluminum housing

Hardware: stainless steel

Weight: 0.1 kg (0.25 lb.)

Operating temp. : -55°C / 60°C (-67°F / 140° F)

Dimensions: Overall length - 21 cm(8.3 in)

Swept diameter - 27 cm (1 0.5 in)

Overall height - 12 cm (4.3 in)

Vane size - 6 cm h x 10 cm l (2.3 in x 3.8 in)

Main housing diameter - 5 cm (2 in)

Mounting: 13 mm (0.5 in) diameter mast

Electrical:

Range: Direction-355 degrees electrical (5 degrees open)

Signal: Analog DC voltage from conductive plastic potentiometer resistance 10K ohm; linearity 1.0%, life expectancy of 50 million revolutions (4-6 years normal operation)

Power requirements: Regulated potentiometer excitation of 1 to 15VDC



WWW.COMPTUS.COM Phone: 603 726-7500 Fax: 603 726-7502

Comptus commercial grade environmental sensors and transmitters are designed to be custom configurable to meet your system requirements.

Products are available from single components to complete systems to meet your environmental sensing needs.

Product applications include:

- Environmental research and monitoring
- Building Automation Systems
- Renewable Energy site assessment
- Wind event safety warning systems
- Fountain controls
- Commercial and Agricultural monitoring and controls.

Comptus products include:

A75 Series Wind Speed Sensors
Reed Switch pulse count output and,
Self powered sine wave

output A75 Series Wind

Direction sensors

A70 Series Environmental Sensors with transmitters
Wind Speed
Wind Direction
Insolation
Photometric
Temperature
Humidity
Rainfall
Barometric Pressure

C Series Wind Alarms

- C45 Single alarm Wind Alarm
- C44 Two alarm Wind Alarm
- C47 Four alarm Wind Alarm

A76 Series Mounting and Tower systems

A96 Surge Arrestors

Comptus transmitters are custom configured to meet your system requirements.

Power Options: 120VAC, 230VAC, 4-20mA loop, 12-24VDC, 24VA

Output Options: 0-1mA, 4-20mA, 0-1V, 0-5V Other options are available on request.



To learn more about how Comptus sensors and transmitters can support your environmental monitoring needs, visit our website or call.

Comptus
202 Tamrack Rd.
Thornton, NH 03285

