

ALL ENVIRONMENT DIGITAL AEROVANE®

- **HIGH ACCURACY:**
1°/ 1 mph (0.45 m/s)(0.87 kts)
- **HIGH SPEED:**
up to 140 mph (62.6 m/s)(122 kts)
- **RUGGED WATERPROOF DESIGN**
(Sealed Ceramic Bearings)
- **ALL WEATHER DESIGN**
(Thermostatic Controlled Heaters)
- **HIGH RELIABILITY DIGITAL OUTPUT**
- **PROVEN DESIGN**
(Based on Series 120 Belfort Aerovane)
- **10 YEAR GUARANTEE**
- **LOW POWER REQUIREMENT**
(Ideal for remote operation)

The Belfort All Environment Digital Aerovane® is designed to operate in the toughest operating environments where reliable accurate wind speed and direction measurements are required. Wind Speed is sensed by a proven 3 blade impeller which is mounted to a stainless steel shaft, mounted on sealed ceramic bearings and connected to a high reliability magnetic sensor that provides digital pulse output directly related to rotational speed of the impeller. Wind direction is provided by a large rudder attached to the vane and connected to a magnetic sensor through a sealed ceramic bearing to measure the wind direction (with no dead zone) to an accuracy of 1°(with a 0.35° resolution), the best in the industry.



Model AEDA 140

The large rudder section of the Aerovane assures wind direction accuracy using the proven tail design of the predecessor Belfort series 120 Aerovane. Balanced about its center of rotation with its long cord length (distance from shaft to tail section) and large airfoil tail design the AEDA 140 provides excellent sensitivity to small wind direction changes at low airflow. Made of thermoplastic and mounted to machined aluminum base materials the proven rugged LED design assures accurate readings to 140 mph (62.6 m/s) (122Kts).

The AEDA 140 is available with thermostatically controlled heaters to prevent freezing during icing conditions to temperatures of 14° F (-10° C).

THE STANDARD
OF MEASUREMENT

BELFORT INSTRUMENT

ALL ENVIRONMENT DIGITAL AEROVANE®

Model AEDA 140

SPECIFICATIONS

WIND SPEED

Range 0-140 MPH (0-62.6 m/s) (0-122 kts)
Accuracy +/- 1 MPH (0.45 m/s) (0.87 kts)
Starting Threshold 2 MPH (0.90 m/s) (1.74 kts)
Distance Constant 15 Feet (5 m)
Output RS232, Digital 72 Pulses per Knot/62 Pulses per MPH

WIND DIRECTION

Range 0-3600
Accuracy +/- 10
Delay Distance 34 Feet (10.3m)
Power Requirement 12-18VDC
Size 32" L X 29 5/8" H
(82.5 X 75 cm)
Rotor 15" (39.4 cm) Dia.
Weight 7.5 Pounds (3.4 kg)
Shipping Weight 15 Pounds (6.8 kg)

Part Number P/N 22865-1 • Heated AEDA P/N 22865-2



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