

OMNISKYONE

WEATHER MONITORING SYSTEM



MONITOR YOUR WORLD

THE OMNISKY**ONE** IS A RUGGED SYSTEM DESIGNED FOR CONTINUOUS 24/7 OPERATIONS. BUILT AROUND A HEAVY DUTY COMPUTER TO FOLLOW YOU WHERE EVER YOU NEED TO GO.

OMNISKYONE

THE OMENIUM OMNISKYONE WEATHER MONITORING SYSTEM GIVES TOTAL SITUATION AWARENESS TO YOU AND TO YOUR SUPPORTING TEAM IN REAL TIME.

It's not just a complete weather station, it's a network of weather information stretching as far as your capabilities go. OmniSkyONE provides crucial weather information for planning and conducting drug smuggling interdictions operations, search & rescue operations, drill platform protection and territorial water control.

Our on-board units feature a rich, low-profile rugged system that is suitable for the harshest of military environments and comply with NEMA and Ingress Protection standards as long as with various international weather standards. Built upon true and tested protocols to make it one of the most reliable systems you'll ever use.

ADVANTAGES

- Enhanced weather situational awareness and common information sharing
- System requires minimal mechanical integration and cabling effort
- Various options and customizations to meet individual requirement
- Information is available through a secure web platform (*real time and past data*)
- Highly affordable system and low cost based on COTS technology
- Generate weather reports for analysis (*Data link required*)
- Intuitive interface for easy operations
- Accurate detection of environmental conditions
- All-in-one sensor for ease of installation
- Enhances security of life and of property



COMPLETE ALL-IN-ONE

HEAVY-DUTY SENSOR FOR THE SIMPLEST INSTALLATIONS, OMNISKYONE PRECISELY MEASURES THE FOLLOWING DATA



Wind direction
Wind speed
Air pressure
Air temperature
Relative humidity
Precipitation intensity
Precipitation type
Precipitation quantity
Solar radiation



SENSOR SPECIFICATIONS

GENERAL

Dimensions : Ø approx. 150mm x 317mm
 Weight: Approx. 1.5kg
 Protection type housing IP66
 Operating voltage 4...32VDC

TEMPERATURE

Principle: NTC
 Measuring range -50...60°C
 Accuracy ± 0.2°C (-20°C...+50°C),
 Otherwise ± 0.5°C (>-30°C)

RELATIVE HUMIDITY

Principle Capacitive
 Measuring range 0...100% RH
 Accuracy ± 2% RH

PRECIPITATION QUANTITY

Resolution 0.01mm
 Measuring range Drop size 0.3...5mm
 Reproducibility Typ.>90%
 Precipitation type Rain/snow

AIR PRESSURE

Principle MEMS capacitive
 Measuring range 300...1200hPa
 Accuracy ± 0.5 hPa (0...+40°C)

RADIATION

Response time (95%) <1s
 Spectral range 300 to 1100nm
 Measuring range 1400W/m²
 Accuracy 5%

WIND DIRECTION

Principle Ultrasonic
 Measuring range 0...359.9°
 Accuracy < 3° RMSE >1.0m/s

WIND SPEED

Principle Ultrasonic
 Measuring range 0...75m/s
 Accuracy ± 0.3m/s or 3% (0...35m/s) RMS
 of reading, whichever is greater
 ± 5% (>35m/s) RMS

COMPUTER SPECIFICATIONS

DISPLAY

15" 1024x768 XGA Resolution VESA/Console
 Mount Industrial Computer
 Armor Glass Film Glass Resistive Touch Screen
 VBOND Optical Enhancement for Shipboard
 Environment
 400nits Brightness
 Full Range Manual Dimming

INTERNAL HARDWARE

Intel E3845 Quad Core Atom 1.91GHz CPU
 4GB RAM
 500GB HDD (5400RPM)

I/O PORTS

4-USB 2.0, 2-Gigabit Ethernet Ports,
 VGA output external
 4-RS422 optically isolated serial ports
 (15kV ESD, 4kV Surge, 2kV electrical
 isolation and protection)

GENERAL

90-240VAC Power Supply input
 w/fused Corcom Filter
 Black Powder Coat Milled Aluminium
 Front Bezel, Aluminium Rear Housing

