

# OMNISKYWX

WEATHER MONITORING SYSTEM



## ALL-WEATHER SOLUTION

THE OMENIUM OMNISKYWX IS A COST EFFECTIVE SOLUTION THAT OFFERS GREAT QUALITY AND FUNCTIONALITY, DESIGNED FOR THE INDUSTRIAL ENVIRONMENT.

# OMNISKYWX

THE OMENIUM OMNISKYWX MONITORS AND RECORDS ALL CRITICAL WEATHER PARAMETERS THAT CAN AFFECT YOUR OPERATIONS IN REAL-TIME.

More than an observation station, it is an observation network, with linkable stations that shares information in real time. you'll never be caught off guard! Our system features a rich low-profile rugged computer that is suitable for the harshest industrial environments and comply with various international NEMA and Ingress Protection standards.

Operations need to be aware and deal with weather hazards. A complete weather observation system can make the difference to protect your crew and your installation from the elements. By knowing in real time what is happening, you can take crucial decisions faster and more accurate than ever.

## ADVANTAGES

- Real-time data monitoring and information sharing
- Highly affordable system and low cost basis on COTS technology
- Minimal training and maintenance required
- All-in-one sensor for ease of installation
- Accurate detection of environmental conditions
- System requires minimal mechanical integration and cabling effort
- Information is available through our secure web platform (*real time and past data*)
- Generate weather reports for analysis
- Enhances security of life and of property
- Fully customizable



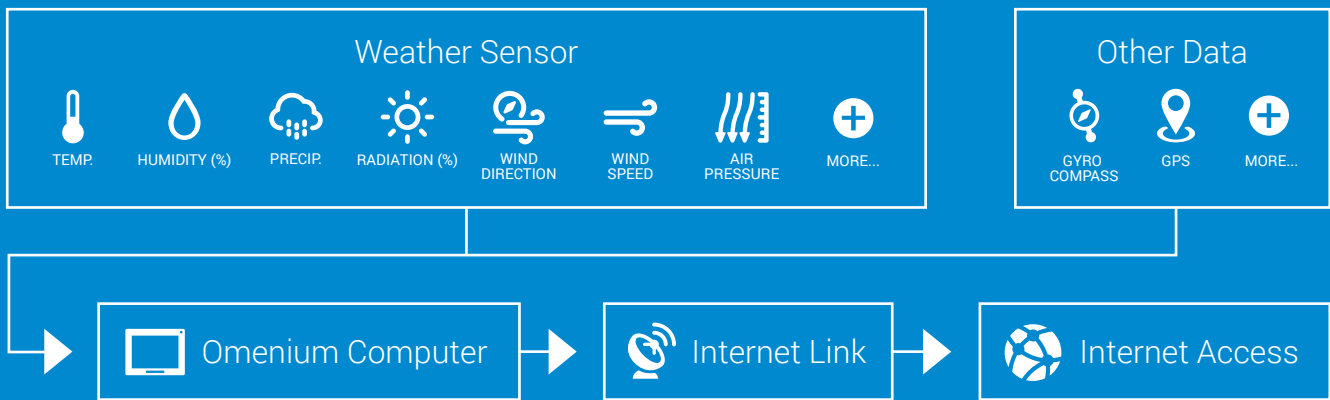
## COMPLETE ALL-IN-ONE

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



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

# HOW IT WORKS



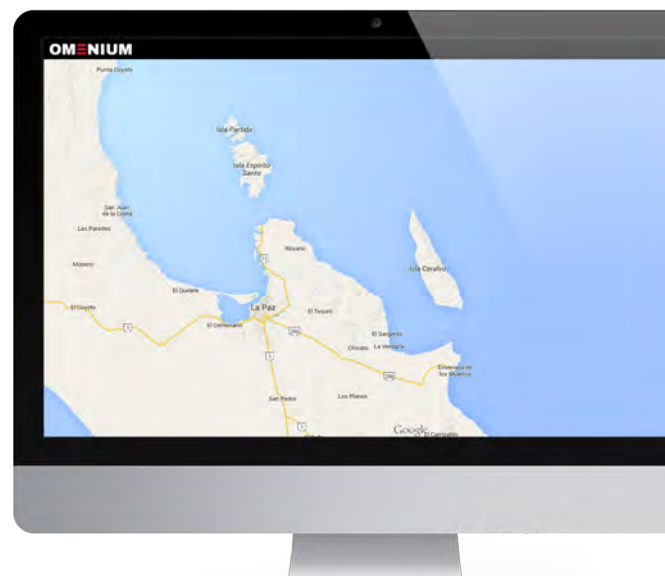
## THE SYSTEM

THE OMNISKY**WX** IS A COST EFFECTIVE SOLUTION DESIGNED FOR CONTINUOUS 24/7 OPERATIONS. SUITABLE FOR THE INDUSTRIAL ENVIRONMENTS AND OFFERING GREAT QUALITY AT A REASONABLE PRICE.

- Touch Screen
- Supports wide temperature range of -20°C ~ +55°C
- 15" (1024 x 768) color TFT LCD display
- IP65, NEMA 4 rugged protection, aluminium front bezel
- Anti-vibration up to 1.3G
- Omenium Observer® Software preloaded.
- Optically Isolated serial ports
- Encrypted communication
- Omenium Observer® Software preloaded.
- Energy Efficient, Low Power Consumption

## THE NETWORK

The OmniSky**WX** collects and feeds information through our data centres where it is made available to your team, 24/7. Whether you need up-to-the-minute observation or need to peek in the past for analysis, our secure, redundant network of databases ensure you can access your data. This view of the situation enhances your operational insight of the situation.





# 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/m<sup>2</sup>  
 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" (1024 x 768) color TFT LCD display  
 400 nits  
 Resistive touch screen

**INTERNAL HARDWARE**

Intel® Atom™ processor E3827(1.75 GHz)  
 2.5" SATA Hard Drive  
 4GB RAM

**GENERAL**

9~36VDC wide voltage and over current protection  
 IP65, NEMA 4 rugged protection, aluminium front bezel  
 CE Certified

**I/O PORTS**

2 Gigabit LAN  
 2 USB 3.0  
 2 USB 2.0  
 4 COM ports

