

# IMS4 Helideck

Built on the modular and field proven IMS4 AWOS platform, IMS4 Helideck is optimized to provide real-time weather conditions and monitoring of the helideck motion, thus ensuring the flight and passenger safety.



The weather parameters monitored include wind speed and direction, air and sea temperature, relative humidity, barometric pressure, visibility and present weather, cloud height and wave height. In addition, the IMS4 Helideck monitors the helideck's heave, heave velocity, roll, pitch and inclination, as well as ship's position, heading and velocity in real-time. The automatically generated helideck reports can be disseminated through various communication channels or optionally broadcast to pilots via VHF transceiver.

## Sensors – typical configuration

### Ultrasonic 2D

Maintenance-free and without moving parts, the Ultrasonic 2D wind sensor is ideal for the long-term economic operation.

- Wind speed measurement range up to 75 m/s

### RHT175 Humidity Probe

The new generation of Relative Humidity and Temperature Probes RHT175 provides reliable and high precision relative humidity and temperature measurement.

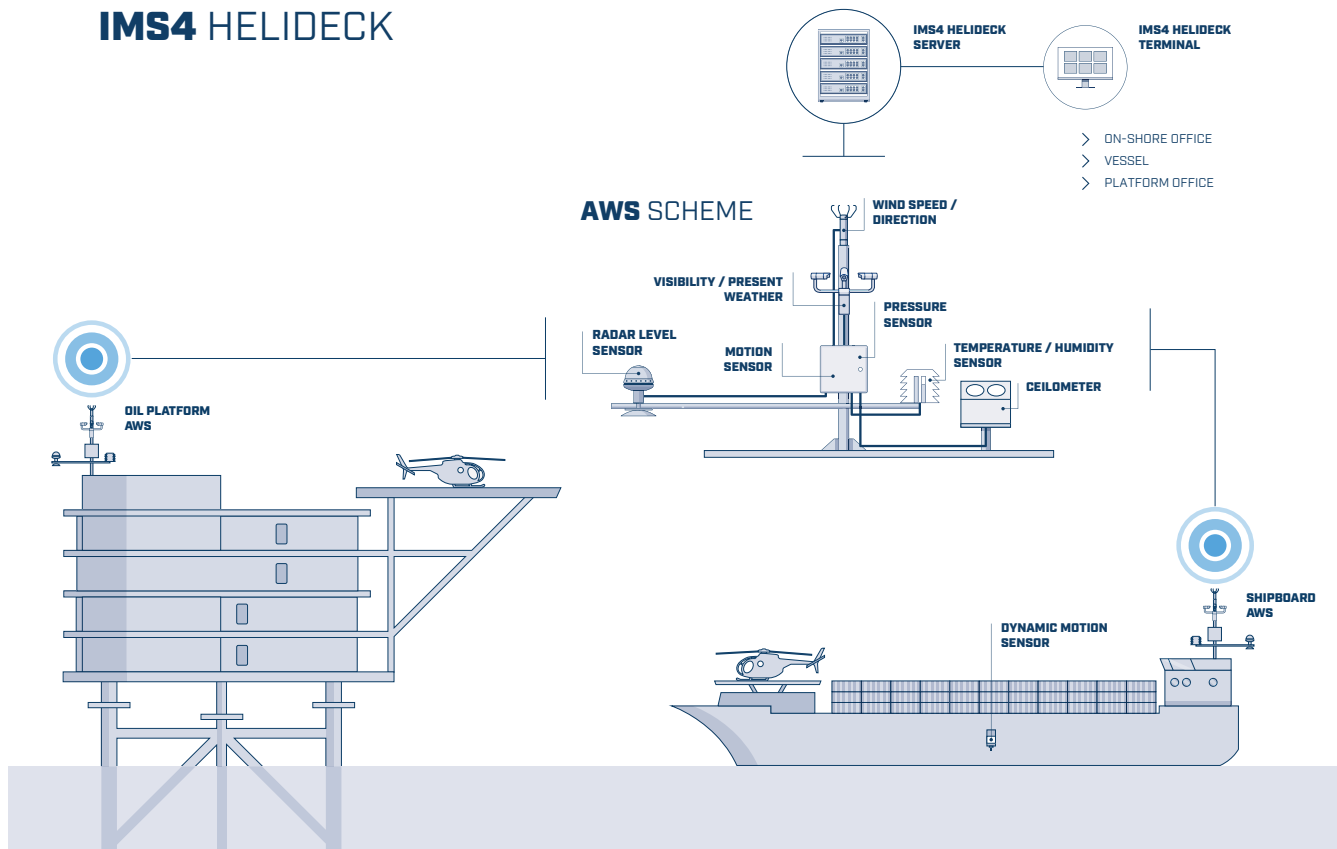
- Accuracy typical 1 %RH
- Long-term stability < 1 %RH / year
- Humidity sensor 0 to 100 %RH

### MSB780 Digital Barometer

Digital Barometer MSB780 is designed for use in professional meteorological and aviation applications that require reliable and highly accurate measurement, fast dynamic response and advanced long-term stability.

- Excellent total accuracy 0.15 hPa
- Typical long-term stability better than  $\pm 0.05$  hPa / year
- Fast dynamic response
- Fully temperature compensated
- Digital output
- 1 to 3 transducers

## IMS4 HELIDECK



### VPF-700 Series Visibility and Present Weather Sensor

Small, lightweight and rugged the VPF-700 Series offers long term reliability and provides correct measurement under all weather conditions. The VPF-700 Series is comprised of three models:

- VPF-710 measures visibility and fog density
- VPF-730 measures visibility, fog density, precipitation type, rainfall rate and snowfall rate
- VPF-750 measures visibility, fog density, precipitation (including freezing precipitation), distinguishes haze, smoke from mist
- 10 m to 75 km visibility range
- Accurate
- High reliability, low maintenance
- Precipitation type identified (VPF-730, VPF-750)
- Water equivalent volume for snow, sleet and hail measured (VPF-730, VPF-750)

### Cloud Ceilometer CBME 80

The cloud ceilometer CBME 80 is for fixed and mobile installations where accurate and reliable cloud height information is required.

### Wave Radar REX

Non-invasive measurement of the wave height, period, direction, sea level and tide.

### Motion Sensor

The high-quality motion sensor provides helideck heave, pitch and roll data for floating / mobile installation.

### Optional sensors

Precipitation, solar radiation, lightning, sea current speed, direction and profiling, etc.

### IMS4 Helideck Server / Terminals

The IMS4 Helideck server collects, processes, stores, reports and displays all data necessary for planning the helicopter operations. The IMS4 Helideck provides the local or remote users with the powerful and efficient web interface to view the data on the CAP 437 compliant IMS4 Helideck terminals installed on vessel or on-shore installation.

### IMS4 Helideck displays

The IMS4 Helideck system includes various visualization displays, that suits the needs of specific installation depending on the number of anemometers installed (port side, starboard side, etc.). It presents the weather and ship data in clear way, including relative wind and true wind data (corrected to the ship's movement).

### Optional voice output

The weather reports can be transmitted through the optional VHF radio transceiver to the helicopter pilots.

## Maintenance and support

All IMS4 systems have full remote maintenance capabilities including status reporting, download of measured data, maintenance of the sensors and data logger and software upgrade.

## Compliance with standards

- ICAO Annex 3
- WMO
- CAP 437/CAP 746
- ATEX (selected configurations)



IMS4 Helideck display with 4 anemometer view



IMS4 Helideck display with 2 anemometer view