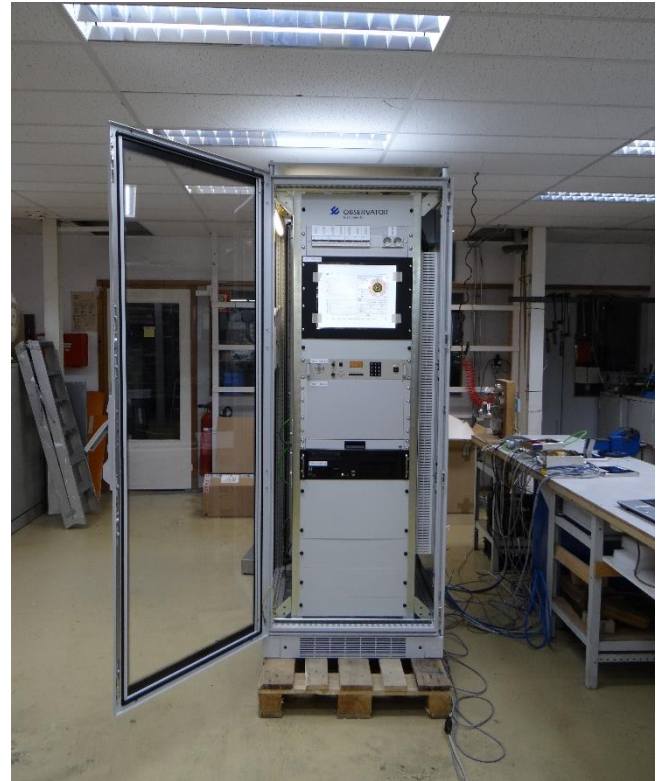OIC-2022 with OMC-141-2B

19" cabinet for weather system

Datasheet

OMC-141-2B ATIS System

The OMC-141-2B Automatic Terminal Information Service (ATIS) is an on-command broadcast of recorded non-control weather information for unmanned offshore oil & gas or offshore wind energy platforms.

The system broadcasts essential weather information, such as air temperature, humidity, barometric pressure (QFH and QNH), visibility, present weather and any other information required by the pilots. Helicopter pilots usually listen to an available ATIS broadcast before the final approach, in order have a safe landing on the platform.

The helicopter pilot can, by using the VHF radio, request the actual weather information (automatic voice message) from the unmanned station. The system also has the possibility to control the helideck lights, by using a standard VHF radio.

Features

- Ideal system for unmanned stations
- Easy to operate
- Conform ICAO and WMO
- Reasonable pricing
- Works in conjunction with Blue2Cast software and an Observator weather system

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General

The voice functionality in the Observator system follows the usual ATIS practice. However, this practice is not described in standards and varies from country to country. The client should specify specific requirements.

The voice message is transmitted in the English language. The message is transmitted once. The message starts in about one second after the rf carrier starts. The message starts with the station identification.

The message generally follows the METAR information in accordance with ICAO; WMO, no 306, manual on codes, suppl. no.5 (VIII, 2005) FM 15-XIII METAR.

Message composition (example message):

> This is XXXXX platform
> Automated weather observation
> One two three four Zulu (time)
> Wind zero eight zero degrees, zero niner knots
> Visibility four kilometers
> Weather moderate rain
> Clouds few one thousand five hundred feet
> Temperature three
> Dew point minus three
> Q N H one zero two six hectopascal

Remarks:
- 1234Z is the UTC time (12:34).
- 9 is pronounced as niner, compliant to aeronautical practice.
- Temperature is given in degrees Celsius.
- Visibility in meters and clouds in feet.

The OMC-141-2B will be connected to the OIC-2022 server by LAN. The OMC-141-2B box contains also a VHF radio (mic & squelch), and the OIC-2022 has relay outputs to the helideck lighting system of the customer.

Recognition of the keying sequences (3x, 4x, 5x, 6x pulses control relay output lighting and 7x pulses broadcast the actual spoken weather report over the radio) is done by the OMC-141-2B. The OMC-141-2B must be able to recognise the squelch/PTT pulses coming from the radio. Pulse length between 0.15s – 2.2s.

A NOTAM-message can be set by the HMS menu through the webserver. It is text with important information, such as obstacles, maintenance or closing of the helideck, etc. This message will be sent directly after the meteo information.

A telephone modem connection is not necessary for this system.

The OMC-141-2B comes in a mountable 19" 3HE rack. The system operates in conjunction with Blue2Cast software and an Observator weather system.
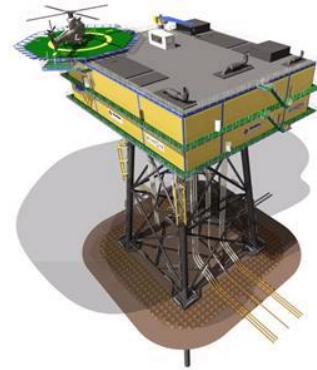
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Since 1924 Observator has evolved to be a trend-setting developer and supplier in a wide variety of industries. From instruments for meteorological and hydrological solutions, air and climate technology, to high precision mechanical production, window wipers and sunscreens for shipping and inland applications.

Solutions beyond expectations

Originating from the Netherlands, Observator has grown into an internationally oriented company with a worldwide distribution network and offices in Australia,
Germany, the Netherlands,
Singapore and the United Kingdom.

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