OMC-140 Multifunctional TFT Display

Wherever you need to visualize your critical measurement information on a dedicated instrument the OMC-140 can be applied. Whether it is presenting wind information (wind speed and –direction, gust and variation, true or relative) or indication of other meteorological parameters, such like temperature, humidity, barometric pressure, visibility and cloud base, the OMC-140 is the ideal display.

On a 8.5" (long-life; low powered) LED backlight, industrial grade, LCD screen your data will be indicated with a true viewing angel of 170º.

Due to its modular design, the OMC-140 may also act as an intelligent signal converter (see I/O within the specifications). Further the unit is provided with a memory card slot, in case the OMC-140 should act as a basic data logger as well. The unit is also provided with a LAN interface in order to have your information available within your network and is provided with bus-connectors to

Features

- 8,5" Super Wide Viewing Angle 170° LCD with long life and low power LED backlight
- Touch screen display
- Power supply between 90 and 250 Vac
- 2 RS422 NMEA inputs, status LED available
- 2 pcs power supply for connected sensors, status LED available
- 1 pce NMEA output, status LED available
- Alarm handling, pre and end, audible and visible, acceptance possible
- Three option slots available for additional I/O and functionality
- Memory card facility
- RJ45 LAN connection
- Interconnection bus for more displays
- Suitable for 144x144 instrument replacement (portrait or landscape)
- DNV type approval pending

Touch Screen Display   *Setting page*

INDICATION BEYOND IMAGINATION

With market introductions of good LCD displays a new era was opened for manufacturers of indicators. Not limited to dimensions, colors and intensity of LEDs, or limitations of mechanical pointers a wide variety of indication possibilities became available. Adding a touch screen into the design, Observator was able to develop a natyral successor of her current wind display-line.

The OMC-140 was primarily developed as wind display. As a wind display the OMC-140 is the culmination of years of technology advances and invaluable customer feedback. From a single relative wind indicator up to a true and relative wind indicator with advanced alarm capability and a possibility of data storage.

The OMC-140 comes standard with:
• Two NMEA, RS422 inputs, baud rate selectable
    As wind display these e.g. can be used as:
        Wind sensor input and Central brightness control
        Wind sensor input and Heading/Course input (VTG, GGA and HDT messages)
        Wind sensor input 1, Wind sensor input 2 (with auto select yes/no)
• Two controlled power outputs to supply sensor(s)
        x..y Vac, max x mA
• One NMEA, RS422 output, baud rate selectable
All the above I/O are controlled by the display and their status is clearly indicated by LED's on the back side of the display just above the terminals. This make installation and commissioning as simple as possible.

Power supply:
• 100..240 Vac, by means of a IEC-60320 C5/C6 connector

OBSERVATOR
instruments

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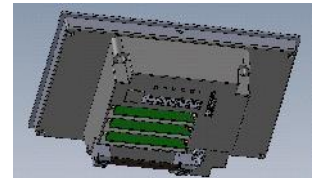
PARAMETERS AS WIND DISPLAY

Within the library the standard wind setting may be selected. The parameters and setting are based on Observator's 25 years of experience in wind indication and consists of the same as the previous versions added with those which were already on the whish-list:
• Wind speed in m/s, knots, mph, km/h or Beaufort
• Wind direction and wind variation (graphical as well as numeric)
• Parameters averaged on a selectable 10 min, 2 min, 1 sec, or user defined period
• Gust m/s, knots, mph, km/h or Beaufort
Additional indication of:
• Sensor alarm(s)
• Speed alarms (pre and end), audible as well with possibility for acceptance

INDICATION BEYOND IMAGINATION II

In order to create a true multi-functional display the OMC-140 is provided with three option slots, for which various option modules are/will be available.

• Remote Control / Control output card
• DC power supply card
• Dual RS422 in/output card (in two; out four)
• Dual RS232 in/output card (in two; out four)
• Dual analogue output card
• Quad analogue input card
• Printer driver card

Ask your local distributer, or consult our web site on a regular basis in order to view different (new) applications and library add-ons.

GENERAL
• Protection class IP40 - conform IEC-60529
• Temperature -20º..+70ºC; humidity 10..80 %RH (non condensing
• EMC conform EN-61326-1; EN 55011: 2007
• DNV type approval pending

DIMENSIONS