



# Multifunction Wind Repeater

## A25400



This repeater formats and distributes the wind data.

- **Particularly easy to read:**  
6.5-inch LCD VGA color screen
- **High performance:**  
advanced algorithms comparing the data from all the sensors to provide a reliable, pertinent indication of the different winds.
- **Complete:**  
recovery of the data from the wind network sensors.



Measurements of the meteorological parameters such as the winds, air pressure, humidity and temperature, as well as the navigation data, are essential for ship operation.

This unit comprises a microcontroller central processing unit handling the processing, display and distribution of the data, as well as adjustment and modification of the instrument's specific operating parameters.

Access to the modifications of the parameter settings is provided on a PC via a USB-RS485 interface and the associated software.



*Measure up*



For more than 30 years, **Chauvin Arnoux Energy** has been implementing **complete solutions** dedicated to ship operation, the defense system, and monitoring of the propulsion systems and electrical circuits.

▪ **Specifications of the RS 485 serial link**

- **Type** Electrically-isolated RS 485 as per EIA 485
- **Mode** Half Duplex
- **Protocol** MODBUS RTU
- **Speed** 9,600 bauds (1,200 to 34,800 Bd)
- **Transmission format** 1 start bit - 8 data bits  
1 parity bit (even, odd or none) - 1 stop bit
- **Polling cycle** 500 ms for all the sensors

▪ **Specifications of the Ethernet link**

- Ethernet
- Full Duplex
- Multicast
- 100 Mbps

▪ **Specifications of the two RS 422 serial links**

- **Type** Electrically-isolated RS 422 as per EIA 422
- **Mode** Half Duplex
- **Protocol** NMEA183 / specific
- **Speed** 1,200 to 34,800 Bd
- **Transmission format** 1 start bit - 8 data bits  
1 parity bit (even, odd or none) - 1 stop bit
- **Polling cycle** Every 500 ms

▪ **Environmental specifications**

- **Temperature** 0 to +50°C in operation
- **Pressure** 700 mbar < P < 1,300 mbar
- **Hygrometry** 10 to 95% RH
- **Roll, pitch, list, trim** No effect

▪ **Mechanical specifications**

- **Overall dimensions** 229 x 202 x 194 mm
- **Casing material** Sheet steel
- **Ingress protection** IP20
- **Weight** 3 kg

▪ **Electrical specifications**

- **Power supply** DC voltage from 19 to 35 V=
- **Consumption** 400 mA at 28 V=
- **Protection** 0.6 A time-delayed fuse / 250 V
- **Connection** Socket J1: 8-pin for 422 link, supplied with plugs  
Socket J2: 8-pin for RS485 wind BUS, supplied with plugs  
Socket J3: RJ45 Ethernet link, supplied with plugs



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