



Data Concentration and Communication Unit

A25412-E



Ce coffret réalise l'interface entre le réseau du vent numérisé, le BUS navigation et les abonnés externes qui utilisent les informations de vent.

- **Rugged:**
metal unit integrated in a waterproof cast aluminum enclosure
- **Versatile:**
multiple input and output connections (interfacing with the navigational computers and the wind network and distribution via 4 subscriber links according to various programmable protocols)
- **Complete:**
protocol gateway and data logger function



The CCC unit collects the wind data available on the BUS and interfaces with the navigation data from the ship. The CCC stores the processed data and then distributes them on several digital links via various protocols.

It comprises a 32-bit microcontroller central processing unit handling management of the communication links and processing of the information, 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.

• Internal Wind BUS serial link

- **Type** Electrically-isolated RS 485 as per EIA 485
- **Mode** Half Duplex
- **Protocol** MODBUS RTU slave
- **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

• 4 Subscriber serial links

- **Type** Electrically-isolated RS 485 / RS422
- **Mode** Half or Full Duplex
- **Protocol** NMEA / specific MODBUS RTU
- **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

• 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** 230 x 330 x 110 mm
- **Body material** Cast aluminum
- **Ingress protection** IP20
- **Weight** 4.8 kg

• Electrical specifications

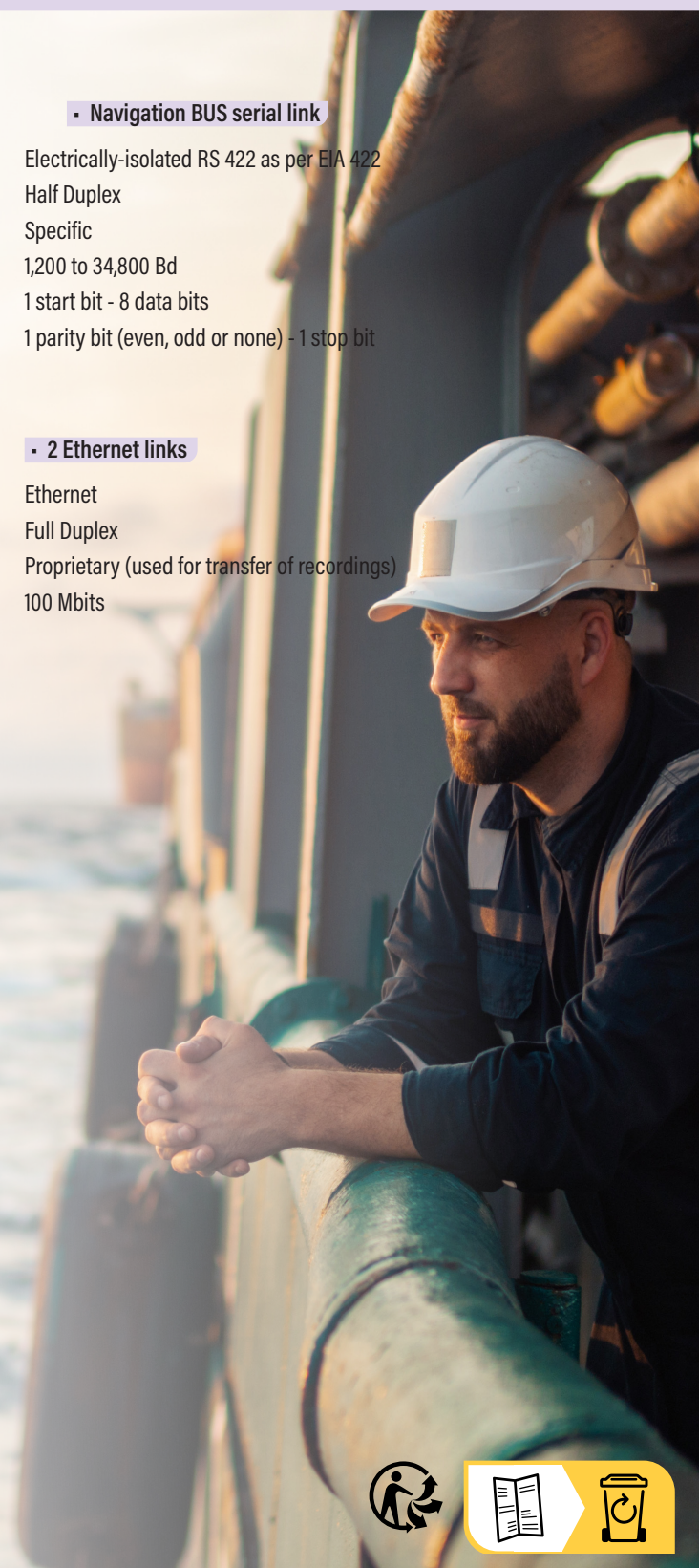
- **Power supply** DC voltage from 19 to 35 V=
- **Consumption** 300 mA at 28V=
- **Connection** 3 cable glands and Amphenol ZN plug
- **Protection** Fuse

• Navigation BUS serial link

- **Type** Electrically-isolated RS 422 as per EIA 422
- **Mode** Half Duplex
- **Protocol** 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

• 2 Ethernet links

- **Ethernet**
- **Full Duplex**
- **Proprietary (used for transfer of recordings)**
- **100 Mbits**



FRANCE
Chauvin Arnoux Energy
16, rue Georges Besse
92182 ANTONY Cedex
Tél : +33 1 75 60 10 30
Fax : +33 1 46 66 62 54
caenergy@chauvin-arnoux.com
www.chauvin-arnoux-energy.com

INTERNATIONAL
Chauvin Arnoux Energy
16, rue Georges Besse
92182 ANTONY Cedex - FRANCE
Tél : +33 1 75 60 10 30
Fax : +33 1 46 66 62 54
caenergy@chauvin-arnoux.com
www.chauvin-arnoux-energy.com

SUISSE
Chauvin Arnoux AG
Moosacherstrasse 15
8804 AU / ZH
Tél : +41 44 727 75 55
Fax : +41 44 727 75 56
info@chauvin-arnoux.ch
www.chauvin-arnoux.ch