

# Boat instruments

## Tank senders / sensors

### Waste water control panel type WWCP

#### Integrated tank level monitoring

This easy-to-use control panel with security lock can be used manually or automatically to control the full tank pump-out and manage the complete waste water system. The WWCP panel is connected to a VETUS level sensor (type WWSSENSORA) and indicates the content level in the tank using LED's, it will ignore brief maximum level peaks caused by boat movements.

For detailed information see the Waste water section, page 191.



WWCP

### Ultrasonic level system-bus version (RS485-bus) and graphic display

The VETUS ultrasonic level sensor, type SENSORB is contactless and will measure the fluid level in any shape and type of tank (except metal tanks), regardless of its dimensions, but with a maximum depth of 120 cm. It is suitable for use with: petrol, fresh water, black and grey waste water. After installing the SENSORB it can be calibrated very easily using the SENSORD graphic display. The graphic display instrument model SENSORD can be used to show the contents of up to four different tanks on one screen. A maximum of eight tanks can be monitored with this system.

#### Specifications

- Power supply: 8 - 32 VDC
- Current consumption  
Instrument: 125 mA at 12 VDC 63 mA at 24 VDC  
Including background lighting
- Current consumption sensor: 35mA

- Number of sensors: max. 8
- Number of display instruments: max. 2
- Max. current on alarm output: 200 mA
- Language selection: Dutch, English, German, French, Spanish and Italian
- Operating temperature: 0 to +50 °C
- Protection class: IP66

EMC-directive 89/336/EEC, 92/31/EEC and 93/68/EEC

SENSORD



The tank management system consists of a display instrument (SENSORD) and an ultrasonic level sensor (SENSORB) for each tank. The required number of sensors must be purchased separately.

Type	Description	Dimensions (mm)
SENSORD	Display for level indication via bus-system, max four tanks	110 x 110

## Switch panels

### Type P8FA

After mounting, the panel is splash proof from front face (IP 64). It has eight separate circuits, each provided with a switch, indicator LED and fuse holder and it is suitable for both 12 and 24 VDC circuits.

The eight fuse holders are located in a separate compartment, which can be opened at the front of the panel and either type of fuse may be fitted. Sixty self-adhesive name/symbol plates for different functions are supplied. There are also two covers supplied for the fuse compartment, depending on whether automatic fuses or conventional automotive (ATO) fuses are used. The panel is completely pre-wired and provided with a terminal rail, for connection of the power supply and equipment. The panel is made of synthetic and non-corrosive materials.

#### Specifications

- Dimensions: 99 x 161 mm
- Built-in depth: 45 mm



P8FA

Type	Specifications	Voltage (DC)
FUSE06A4	Automatic fuse 6 Amps, for P8FA	Set of four pcs.
FUSE08A4	Automatic fuse 8 Amps, for P8FA	Set of four pcs.
FUSE10A4	Automatic fuse 10 Amps, for P8FA	Set of four pcs.
FUSE15A4	Automatic fuse 15 Amps, for P8FA	Set of four pcs.
P8FA	Switch panel, for eight blade fuses or automatic fuses (sixteen blade fuses supplied)	12/24



The following automotive (ATO) fuses are supplied as standard:

2 x 1A, 2 x 3A, 4 x 5A, 2 x 7.5A, 4 x 10A and 2 x 15A. Automatic fuses may be ordered as optional equipment (see price list).

The panel can be used with conventional automotive (ATO) fuses or with automatic fuses.