



Photo: Dieter Wanke

OPERATING & DISPLAY SYSTEMS FOR BOATS & YACHTS

The miunske CAN control units, which are established in the commercial vehicle industry, now providing new approaches to the operation and control of boats and yachts in the field of watercraft as well. The CAN keypads impress with **homogeneous and high-contrast illumination**, perfect night design, robust and optional **water-protected design** as well as individual design options. They are available with **4, 6 or 12 function fields** which can be defined as switches, buttons or push buttons. An **integrated light sensor** ensures the automatic adjustment of light intensity. By using multi-color LEDs, the individual display elements can be illuminated in any color (RGB-spectrum). The implementation of **customer-specific color schemes and product designs** is also possible.

* Further information can be found in the product brochure CAN switching and display units.



DESIGN OPTIONS

SIZE OPTIONS



4,6 and 12 fields

DESIGN OF FOILS



The keypad frames can be printed in all color and design variations (CMYK). Colors and designs are printed on the foil from behind to avoid abrasion.

HAPTICS OF FOILS



Doming variants haptically support the secure use of the panel keys.

KEYPAD FRAME



For example „polished chrome“.

In addition to the standard black frames various color variants as well as decorative metallic coatings are available.

COMBINATION WITH ENCODER



It is possible to add encoders.

MIUNSKE-TOOLCHAIN

The miunske-toolchain, which is provided free of charge, offers an uniform interface to parameterize and configure miunske's processor-controlled electronic components.



PROTECTION CLASS IP 67 (front side)

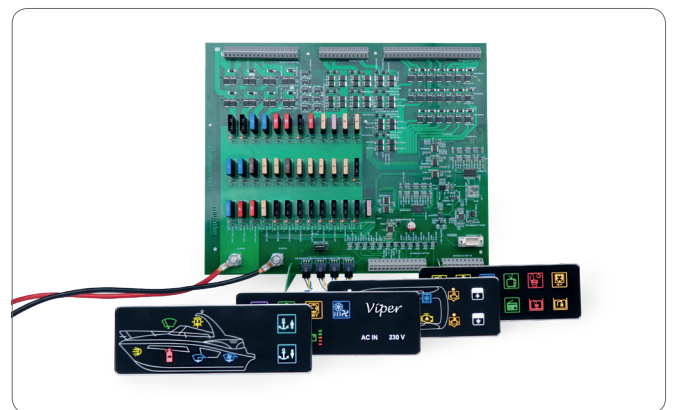


Photo: Dieter Wanke

SMART POWER DISTRIBUTION FOR BOATS & YACHTS

DEVELOPMENT COMPETENCE FOR CUSTOMIZED SOLUTIONS

Central power distribution units nowadays need to cover a broad application range. Next to functions like switching and distributing of power the protection and diagnosis of possible technical failures is prerequisite. Due to miunske's decade long experience regarding vehicle electronics development a rapid implementation even of customer specific requirements is possible. In-house developed power components and corresponding assembly possibilities like soldering and press - fit technology opens a wide array of manufacturing possibilities.



ADVANTAGES

INDIVIDUAL - customized solutions with specified hard- and software

COMPACT DESIGN - power and intelligence combined on one pcb using micro controller technology, continuous current capacity up to 100A

SYSTEMS CAPABLE - using communication interfaces e.g. CAN

SIMPLY INTEGRABLE - system designed for plug & play use with existing parameters

FLEXIBILITY - remote parameterizing of the switch panels by using our WiFi module and software „miunske-toolchain“ acc. to the customers desires

EXPANDABLE - functions like voice response of alerts and signals by our CAN Multi-Sound-Module

SAFE DESIGN - manual redundant operating options like

- bilge pump
 - anchor winch
 - engine hatch
 - anchor and navigation lights
- and self-diagnosis by self-tests
- current monitoring/limiting of the outputs

REFERENCE

EUROPE MARINE Großhandelsgesellschaft mbH/Budenheim