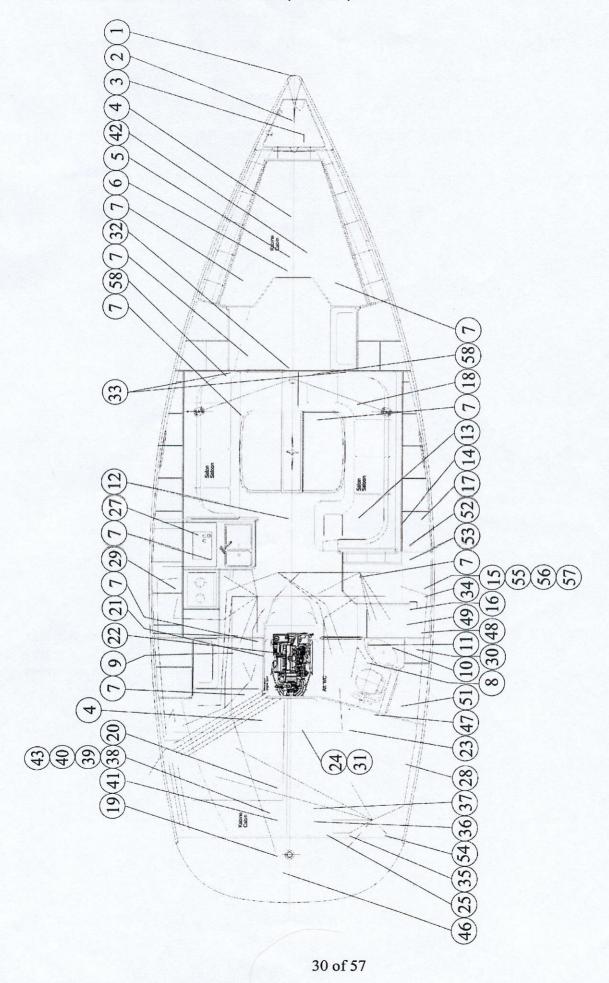
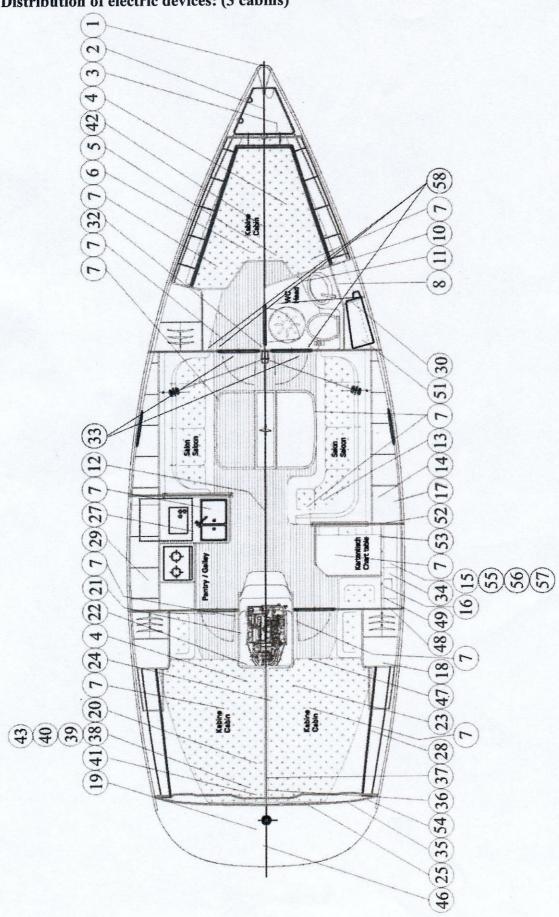
2.5.6 Distribution of electric devices: (2 cabins)



Distribution of electric devices: (3 cabins)



2.5.7 Wiring plan

1 Zweifarbenleuchte Navigation light 2 Elektrisehe Ankerwinde 3 Bedienteil Ankerwinde 4 Frischwassertankgeber 5 Echolot Geber 6 Sumlog Geber Halogenleuchten Neon lamp 9 Wasserpumpe Water pump 10 Duschschalter 11 Duschschalter 12 Elektrische Lenzpumpe 13 Batterien 14 Batterie Ladegerät 15 Elektro Panel 16 Hauptschalter (Motor/Verbraucher) 17 Kurscomputer Auto - Optional 18 Kompass Auto - Optional 19 Rückholgeber Auto - Optional 20 Motor Auto - Optional 21 Anlasser Motor 22 Gleichrichter 23 Dieseltankgeber 24 Boiler - Optional 25 Heckdeuchte 26 Landanschluss 230 V 27 Kühlaggregat 28 Landanschluss 230 V 29 Steckdose Duschraum 230 V 30 Steckdose Duschraum 230 V 30 Steckdose Duschraum 230 V 31 Steckdose Duschraum 230 V 31 Steckdose Duschraum 230 V 32 Kabeldurchfüh. ung 33 Lautsprecher - Optional 34 Radio - Optional 35 Antennenkabel Radio - Optional 36 Motor Panel 37 Tankuhr 38 Tridata Bedienteil 39 Wind Bedienteil 40 Auto Goli Genard Genard Genard Genard Genard 41 Steerung Genard Genard 42 Busterhus Genard Genard 43 Radio - Optional 44 Genard Genard Genard 55 Rehals with Findata Die Heater option 56 Motor Panel 57 Kuhlaggregat 58 Tridata Bedienteil 59 Wind Bedienteil 50 Genard Genard Genard 50 Heater option 50 Steck 230 V 50 Socket			
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Second Geber			
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57 Ankerspillrelais Relay anchor winch	56	Sicherung Ladegerät	Fuse battery charger
58 Lampe Lamp		Ankerspillrelais	
	58	Lampe	Lamp

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Heizung

pump Heating

Kühlschrank 12V-Steckdose

Refrigerator Plug socket 12V Fäkalienpumpe

Duschabsaugpumpe shower pump
Waste water

FW-Pumpe

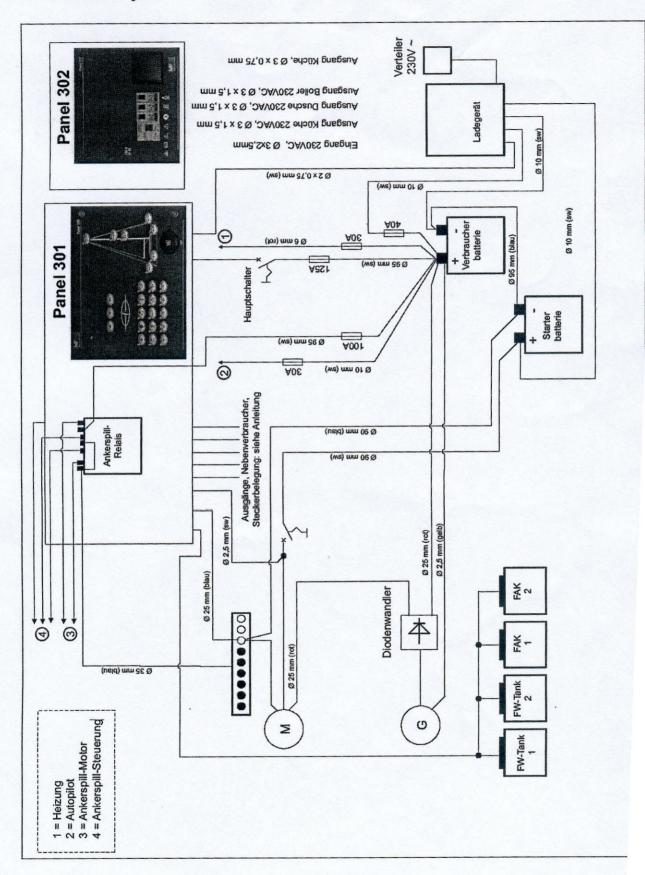
pump

Ankerwinde Bilgenpumpe

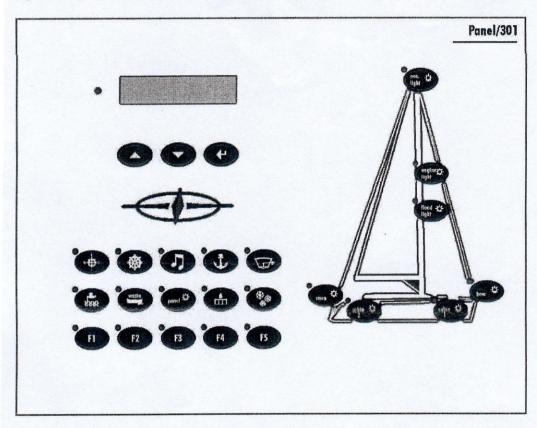
Bilge pump Fresh water

Anchor windlass

2.5.8 Distribution plans



Operating instruction Bavaria sailing boat Panel 301



The boat schematic has integrated switches in the exact position where the lights are switched.

The "external lights"

stern, bow, steam, mast head

are switched with those buttons ($ON \Leftrightarrow OFF$). State of the switches is stored also after complete shut down power supply and remains in case of restart. In case of malfunctions may be cause by disturbed lamps or disconnected cables the yellow LED which is lighted in function flashes.

The "interior light"

cabin 1, cabin 2, deck flood

are switched with those buttons ($ON \Leftrightarrow OFF$). State of the switches is stored also after complete shut down power supply and remains in case of restart.

In case of malfunctions may be cause by disturbed lamps or disconnected cables the yellow LED which is lighted in function flashes.

On bottom left of the panel the push buttons of special boat functions are situated. These buttons switches special boat devices like bilge pump, heater etc. ON <> OFF.

State of the switches is indicated by a appropriate LED.

yellow LED on	Device switched on
yellow LED flashes	malfunction
yellow LED off	Device switched off

Compass

switching ON <> OFF of compass relais. State of the switches is stored also after complete shut down power supply and remains in case of restart.

Navigation

switching ON <> OFF navigation relais. State of the switches is stored also after complete shut down power supply and remains in case of restart.

In case of malfunctions may be cause by disturbed lamps or disconnected cables the yellow LED which is lighted in function flashes and in the display "malfunction" is indicated.

Radio

switching ON <> OFF radio relais. State of the switches is stored also after complete shut down power supply and remains in case of restart.

In case of malfunctions may be cause by disturbed lamps or disconnected cables the yellow LED which is lighted in function flashes and in the display "malfunction" is indicated.

Anchor

switching ON <> OFF of anchor relais. State of the switches is stored also after complete shut down power supply and remains in case of restart.

Bilge pump

switching ON <> OFF bilge pump relais. State of the switches is stored also after complete shut down power supply and remains in case of restart.

In case of malfunctions may be cause by disturbed lamps or disconnected cables the yellow LED which is lighted in function flashes and in the display "malfunction1" is indicated.

Fresh water

switching ON <> OFF of fresh water relais. State of the switches is stored also after complete shut down power supply and remains in case of restart.

Waste water

switching ON \Leftrightarrow OFF of waste water relais. State of the switches is stored also after complete shut down power supply and remains in case of restart.

Panel light

switching ON <> OFF of backlight of panel buttons and display. After 1 minute the light goes automatically OFF again in order to save battery capacity. Restart is done by a new push.

Heater

switching ON <> OFF of heater relais. State of the switches is stored also after complete shut down power supply and remains in case of restart.

yellow LED on Device switched on

yellow LED flashes malfunction

yellow LED off Device switched off

Cooler

switching ON <> OFF of cooler relais. State of the switches is stored also after complete shut down power supply and remains in case of restart.

In case of malfunctions may be cause by disturbed lamps or disconnected cables the yellow LED which is lighted in function flashes.

Additionally to the designed push buttons with fixed functionality 5 spare buttons (F1 - F5)

are available for customized devices which can be connected following the Bavaria flowchart and harness plan.

F1 bis F5

switching ON <> OFF of free usable relais. State of the switches is stored also after complete shut down power supply and remains in case of restart.

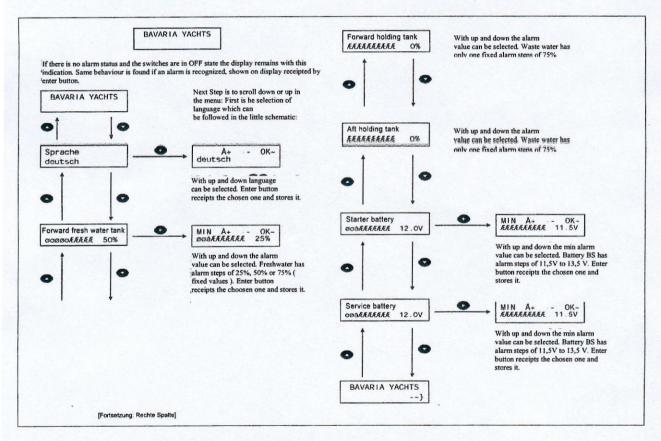
At top of the panel on the left a display is positioned which can be controlled by special scroll buttons below the display.

Using the scroll buttons the indication of preselected informations are displayed.

Scroll buttons and enter below display.

As soon as main power is switched on all LEDs are flashing for 1 sec. to show their functionality (self check). After this check normal functionality is given.

After switch on the display shows



If following symbol is displayed \[\] charging of battery is indicated.

A red LED left of display will flash if an alarm is active. On the display the menue is shown which has raised the alarm. Parallel a flashing exclamation mark next to the beacon on the display occurs.

To receipt the alarm the enter button

Has to be pushed for 2 sec.. The text "Alarm" on the display shows that the alarm has been recognized but not resetted.

Connection plug arrangement Bavaria Sailing Yacht Panel 301 Common:

Power supply:

+12V +25% / - 25% DC (9,0 V - 15,0 V)

Power supply:

+12V(Batt 2+) over pressed screw-connection, **Setscrew** M8, Würth Power+ 93322 Coverage with 125A

GND over pressed screw-connection, Tap hole M6, Würth Power+ 93321

Connection plug arrangement:

Lightcable:

PowerCon 28-2ML 14pol (presselement Würth), (Mating plug of Tyco Nr. 929504-5)

- 1 12V Battery 1+, starterbattery, Connection only for battery measurement
- 2 >>> Do not attach, internally occupied <<<
- 3 Toplight (1)
- 4 Steaming light (2)
- 5 Nose light (3)
- 6 Sailinglight (4)
- 7 Interior lighting (5)
- 8 Interior lighting (5a)
- 9 Interior lighting (6)
- 10 Interior lighting (6a)
- 11 Heating (15)
- 12 Radio (9)
- 13 Radio (9a)
- 14 Autopilot (8a)

Flat pin K92827-020916 (insertion element Wuerth) counterpart AMP

Navigational instrument (8) 154719

+ 1xKontakt autopilot (8a) 154719 + 1xKontakt

Foredeck cable: PowerCon 28-2ML 4pol (insertion element Wuerth), (push-pull plugs of Tyco NR. 929504-1)

- 1 Toplight (1)
- 2 Steaming light (2)
- 3 Sailinglight (4)
- 4 Freshwater (12)

Flat pin K92827-020916 (insertion element Wuerth) counterpart AMP

bilge pump (11) 154719 + 1 x contakt

showering exhaust pump (13) 154719 + 1 x contakt

refrigerator (16a) \ refrigerator (16c)/926716 + 2 x contakt

windlass (10) 154719 + 1 x contakt

Stocko, 2-polig (insertion element Wuerth)

- 1 waste water tank 1 3/4
- 2 waste water tank 1 COM / GND

Stocko, 2-polig (insertion element Wuerth)

- 1 Tank 1 4/4, white
- 2 Tank 1 3/4, brown
- 3 Tank 1 2/4, green
- 4 Tank 1 1/4, yellow
- 5 Tank 1 COM / GND

Diesel tank cable: QuadCon of marks 3polig (insertion element Wuerth), (push-pull plugs of Molex 39014031) **GND** 1 2 5V, VCC extern 3 Level, 0 ... 5V, (5V ^100%) Battery charger cable: Stocko, 2-polig (insertion element Wuerth)

1 **GND**

LED entrance

Backcable:

PowerCon 28-2ML 6pol (insertion element Wuerth), (push-pull plugs of Tyco NR. 929504-1)

- rear light (3a)
- 2 compass lighting (7)
- fresh water (12a) 3
- 4 navigational instruments (8)
- 5 fresh water (12a)
- navigational instruments (8)

Flat pin K92827-020916 (insertion element Wuerth) counterpart AMP showering exhaust pump (13a) \ showering exhaust pump (13b) / 926716 + 2xKontakt refrigerator (16a) \ cooling aggregate (16b) / 926716 + 2xKontakt

Stocko, 2pol (insertion element Wuerth)

- waste water tank 2 3/4
- waste water tank 2 COM / GND 2

Stocko, 5pol (insertion element Wuerth)

- Tank 2 4/4, white
- 2 Tank 2 3/4, brown
- Tank 2 2/4, green 3
- 4 Tank 2 1/4, yellow
- 5 Tank 2 COM / GND

Reserve:

Flat pin K92827-020916 (insertion element Wuerth) counterpart AMP

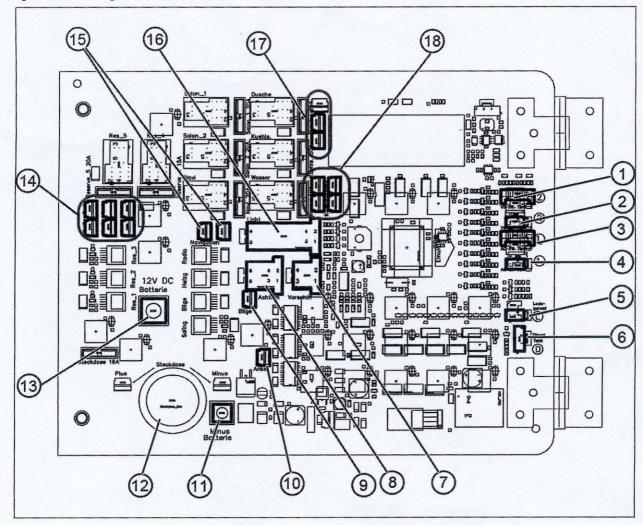
- Reserve 1 (14)
- Reserve 2 (18) 1
- 3 Reserve 3 (19)
- 4 Reserve 4 (20)
- 5 Reserve 5 (21)
- Reserve 5 (21)

Plug socket:

Flat pin K92827-020916 (insertion element Wuerth)

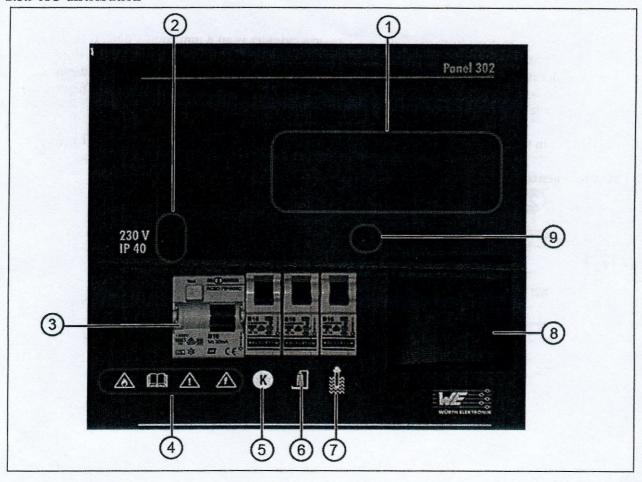
- 12V_Batt_2+ with safety device, NOT switched
- 2 **GND**

Opinion leader plate back



1	Monitoring freshwater tank 2 (VS)	
2	Monitoring waste water tank 2	
3	Monitoring freshwater tank 1 (AC)	
4	Monitoring waste water tank 1	
5	Monitoring battery charger	
6	Monitoring Diesel tank (not used)	
7	Foredeck cable (not used)	
8	Aftcable	
9	Bilge pump	
10	Anchor	
11	Battery - negative pole	
12	Plug socket 12V with safety device	
13	Battery - positive pole 12C DC	
14	Reserve for the function keys F1-F5	
15	Options (autopilot/navigation)	
16	Light cable	
17	Showering exhaust pump	
18	Refrigerator	

2.5.9 AC-distribution



1	Designation of location for radio (optional)
2	LED (green) for earth-leakage circuit breakers
3	Earth-leakage circuit breaker FI
4	Consider warning symbols
5	Automatic circuit breaker kitchen (16A)
6	Automatic circuit breaker shower (16A)
7	Automatic circuit breaker storage water heater (16A)
8	Plug socket 220V
9	LED (red) for storage water heaters on