Installation manual

English
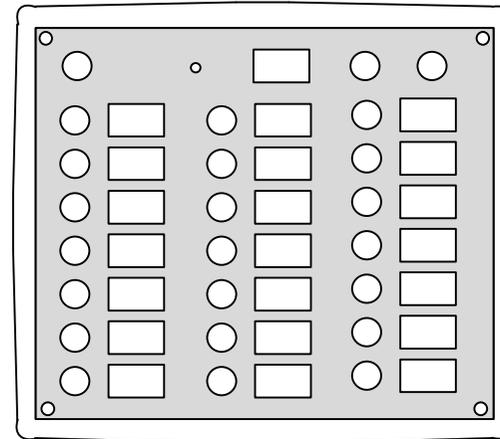
Push button board 21 keys

PBP21K12/24V-0

General

The Capi2

Congratulations on purchasing a Capi2 bus power distribution system. The system can be assembled according to CE and ABYC standards. It is essential therefore to follow the installation instructions carefully.

Capi2 is a modern electronically controlled bus system. Special built in features reduce the risk of a cable fire or a low-voltage situation.

Features

Built in features in a complete Capi2 system include:

- An electronic circuit breaker for each load. The circuit breaker can be reset with the push button panel.
- Visual and audible warnings.
- A warning for overloads. The appliance turns off automatically.
- A warning for low voltage. The appliance turns off automatically after a warning.
- A warning for wrong connected + and − power cable.
- Override fuse for each load
- Programmable:
  Overload protection of 3/6/10 /13/16 Amp.
  As a dimmer
  For momentgary switch.
  For toggel switch
  To be controlled by multiple switches.
  To detect broken cable/lamp.
  Recovery of essential equipment.
  Timers.

Saftey

About this manual

This user manual describes the installation of a **Push button board** with 21 keys which is included in a Capi2 system. Read this manual carefully before installation or operation of the product. In case you have any doubt about a procedure contact your dealer.

General

Observe all safety instructions. Use this product only for the purpose it is intended for. Please contact your dealer immediately if a potential danger arises during the use of this product.

As used in this manual, the following signal words apply:

DANGER - indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.

WARNING - indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury.

CAUTION - indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury or property damage. It may also be used to alert against unsafe practices.
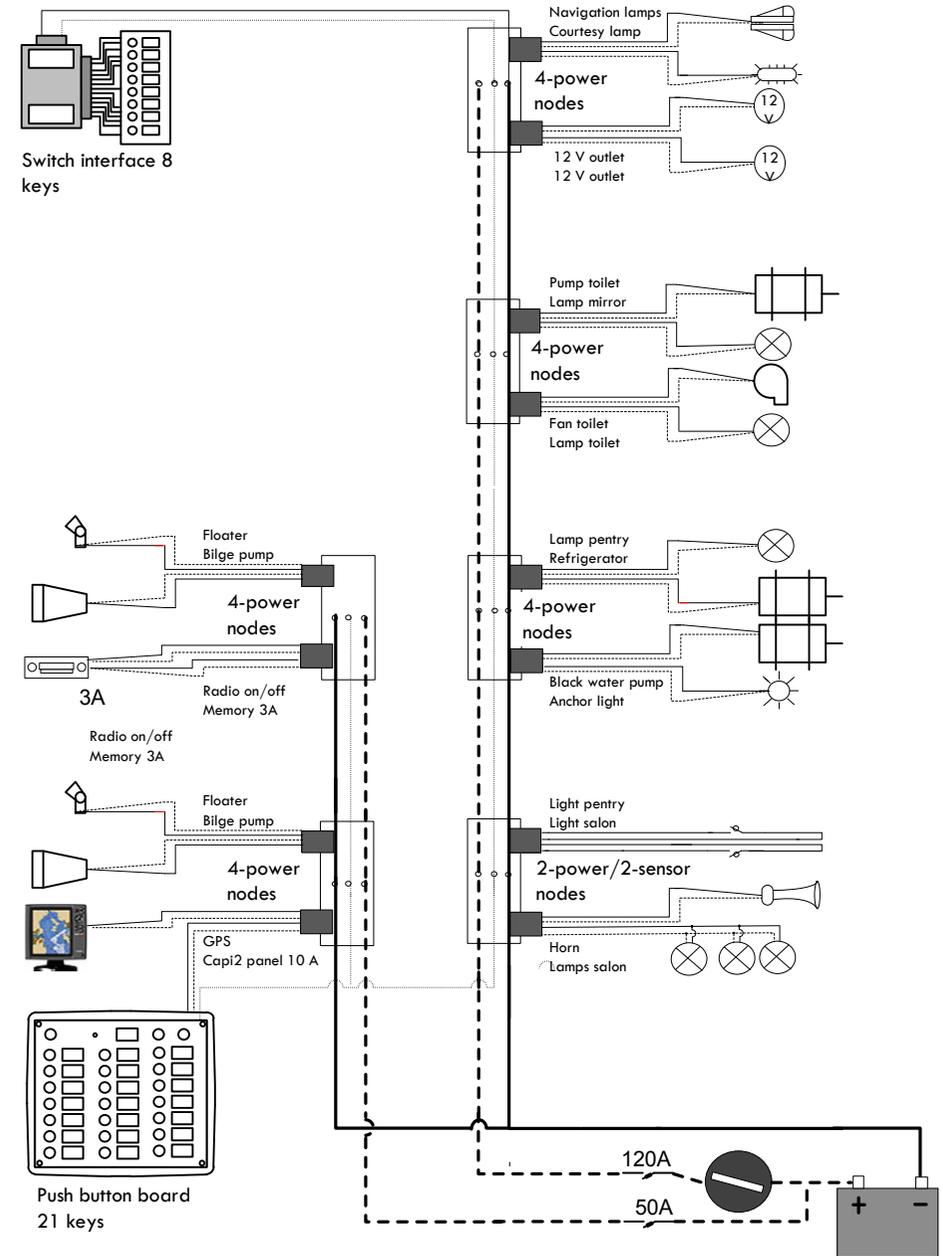
Modifications

Modifications to the product are not permitted.

Service and technical support

For information concerning specific settings, maintenance or repair work, contact your local dealer.

Example of a Capi2 installation

Switch interface 8 keys

Navigation lamps
Courtesy lamp
4-power nodes
12 V outlet
12 V outlet

Pump toilet
Lamp mirror
4-power nodes
Fan toilet
Lamp toilet

Lamp pentry
Refrigerator
4-power nodes
Black water pump
Anchor light

Light pentry
Light salon
2-power/2-sensor nodes
Horn
Lamps salon

Floater
Bilge pump
4-power nodes
3A
Radio on/off
Memory 3A

Radio on/off
Memory 3A

Floater
Bilge pump
4-power nodes
GPS
Capi2 panel 10 A

Push button board
21 keys

120A
50A
+ −

Connect the power to the panel.

In order to use the advantages of Capi2 digital system we suggest that you take the power to the panel directly from the battery or from a node connected to a mainfeeder which is hardwired directly to the battery.
There are three ways to connect the push button board. A fuse of 10 A always has to be placed on the positive cable.

> **Warning**
> Use the right size and color of the cabeling according to the ABYC and the CE regulations.

> **Positive cable:**
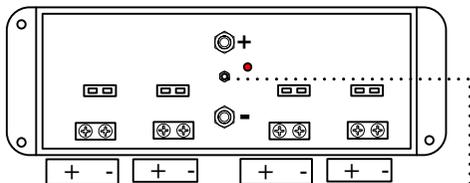> 1,5 mm2/16 AWG marine cable. Fused with a 10Amp fuse.

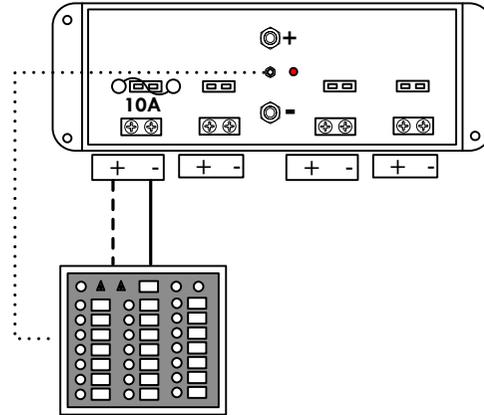> **Negative cable:**
> 1,5 mm2/16 AWG marine cable.

> **Digital cable:**
> 1,5 mm2/16 AWG marin cable.
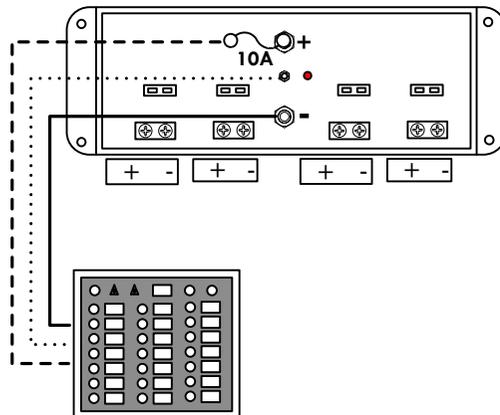> The cable can be connected to any C-2 connection anywhere in the system.

Power directly from the battery.
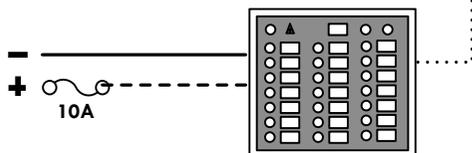
Power directly from the power node.

Power directly from the power node terminals.

Serial numbers.
You can find the serial number on two places. On the backside of the frame and on the backside of the actual print board.

Precautions

General
- Never install any components above batteries or fuel tanks.
- Never install components or cables near heat sources that may melt the insulation.
- Never expose components or cables to oil or grease.
- Never install components when there is a risk of exposure to water.
- Never use twist-on connectors. Always follow the requirements in ABYC Standard E-11 or ISO Standard 10133.

Tools
- Always use the correct tool for crimping terminal connectors.

Cable protection
- Always take the necessary precautions to protect the components and cables from damage.
- Always clamp the wires at least every 30 cm (12").
- Always use insulation barriers and covers to prevent a short circuit of exposed terminal connectors.
- Protect cables that pass bulkheads or structural members against damage by grommets or equivalent means.
- Protect components and wires with sheaths, conduits or equivalent means when there is a risk of physical damage.

Cable requirements
- All wires must be fire resistant, fine-stranded and meet applicable ABYC Standard E-11 or ISO Standard 10133 requirements.
- Always use the correct cable diameter and colour according ABYC Standard E-11 or ISO Standard 10133.

1a On/of button (standby)
2a Warning led low voltage.
3a Numerical leds (**no function**).
4a Background light adjustment - (weaker)
5a Background light adjustment +(stronger)
6a 4 Hexagon screws to fasten front plate.
7a Frame.
8a Label window with red background light.
9a Front plate.
10a Appliances button with red/green
     indication.
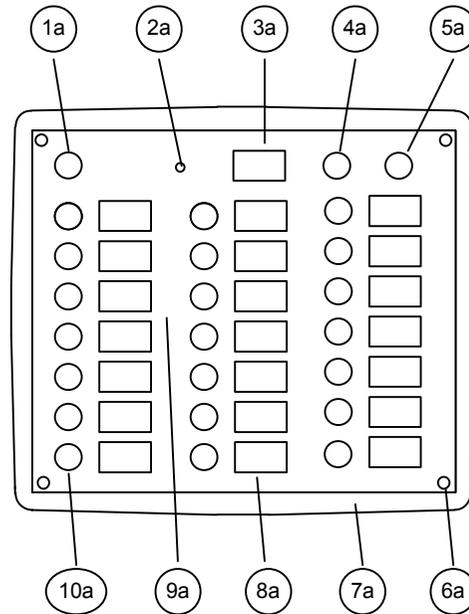
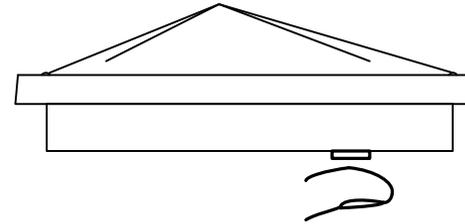**Back side**

1b Mounting hole
2b Label with serial number.
3b Marking of connection
4b Cable connection
5b Width 162,5 mm/6,4 inch
6b Hight   138 mm/5,4 inch
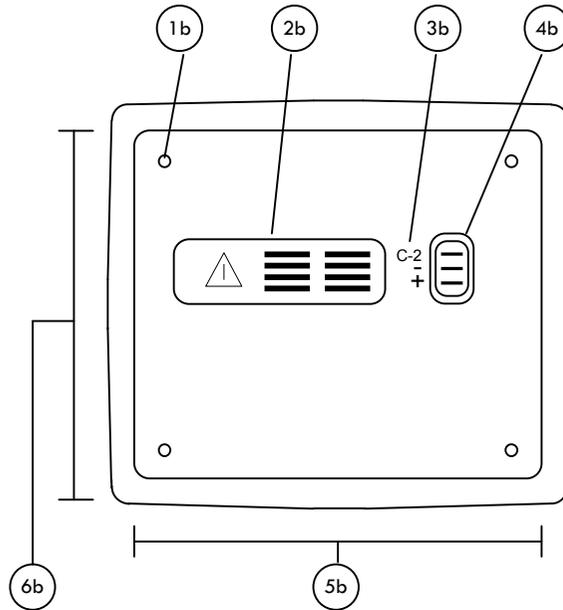
Dismount the front plate.

Unscrew the four hexagon screws (6a).

Push with your thum or a soft tool on the cable connection (4b) until the frame pops out

Mount the frame

Find a suitable place to mount the frame.

DANGER
This device is not ignition protected.
Avoid serious injury or death from fire or explosion.
Do not install in compartments containing gasoline (petrol) fueled engines or gasoline tanks, or in areas where ignition protected equipment is required.

Make a hole with the width (5b) of 162..5 mm and a hight (6b) of 138 mm.
Make a mounting unite and fasten the frame with fours screw through the mounting holes (1b).
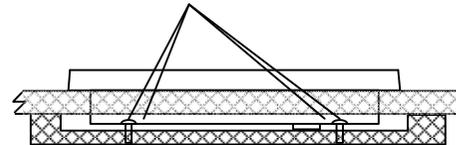
Warning
Do not use screws with a head higher then 4 mm/ 0,16 inch. If you neglect this will the print board get contact with the screws which will result in a short circute and faulty print board.

Connect the power/information cables to the push button board.

When you choose the typ and color of the C-2 cable be then aware that both + and the information cable (C-2) is fused with 10A.
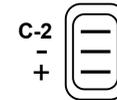
C-2
-
+

Warning
Use the right size and color of the cabeling according to the ABYC and the CE regulations.

Insert the labels.

In the configuration program ACT is there a label tools program.
Print out the labels on overhead paper and use a scissor to cut out the label runs.
Insert the labels runs in the three slots on the backside of the front plate (9a).