CATALOG 2012

Control
at your fingertips

innovative control

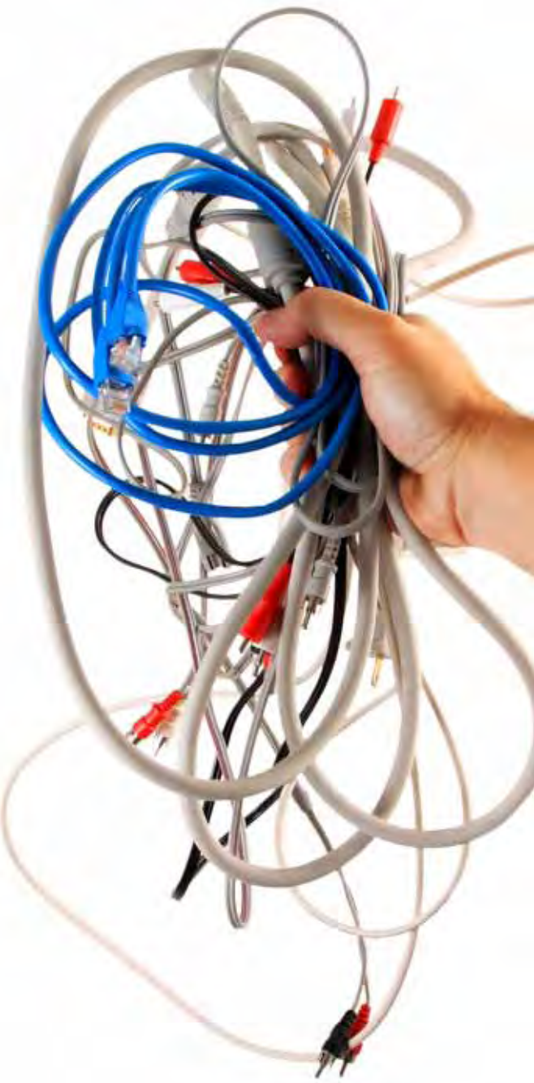
information feedback system

power supply

innovative control

information feedback system

power supply

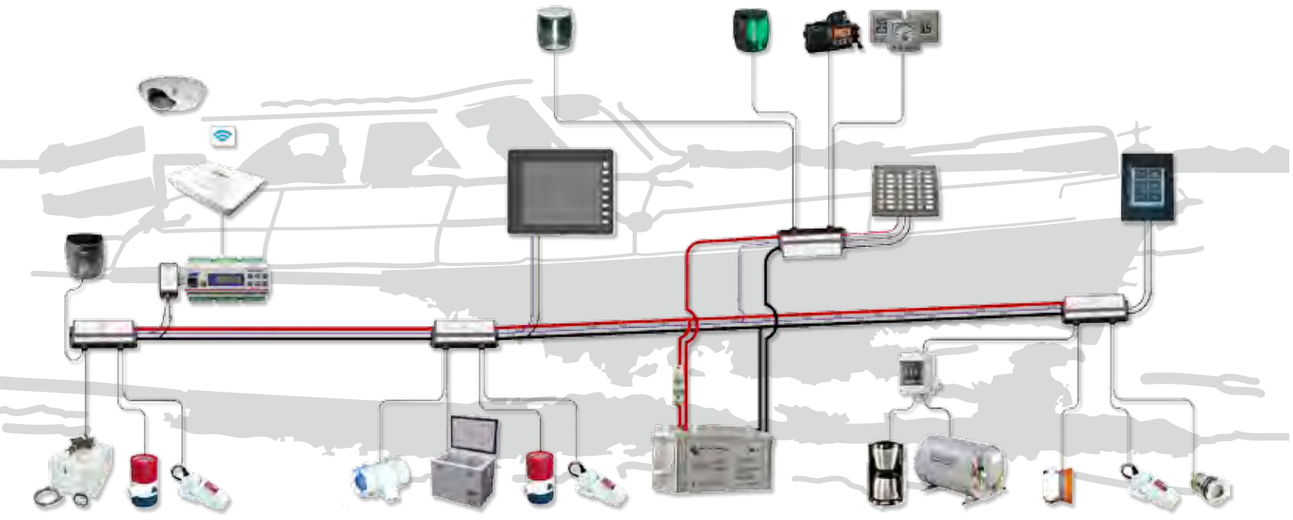


Contents

innovative control

information feedback system

power supply



CAPI2 POWER DISTRIBUTION SYSTEM

Capi2 is a digital power distribution system for motor and sailing yachts. The system is based on advanced bus technology. It consists of two main cables [power supply] and a data cable, and replaces traditional cable looms

Capi2 stands for 'Communication And Power In 2 Wires'. The Capi2 power system was designed for DIY and professional yacht builders. The system is really easy to install and maintain, which makes it the logical choice for yacht builders and marine fitters.

Benefits for fitters

- √ Faster and more efficient installation means saving money on materials, time and personnel
- √ No expensive stocks needed; all products can be delivered immediately
- √ More effective after sales via practical Internet desktop sharing

Bus system

The nodes and the switchboard are part of a ring system. All electrical equipment, such as lights and pumps, are connected to the nodes. The commands to open or close a node (to activate equipment) are given by digital signals.

Why Capi2?

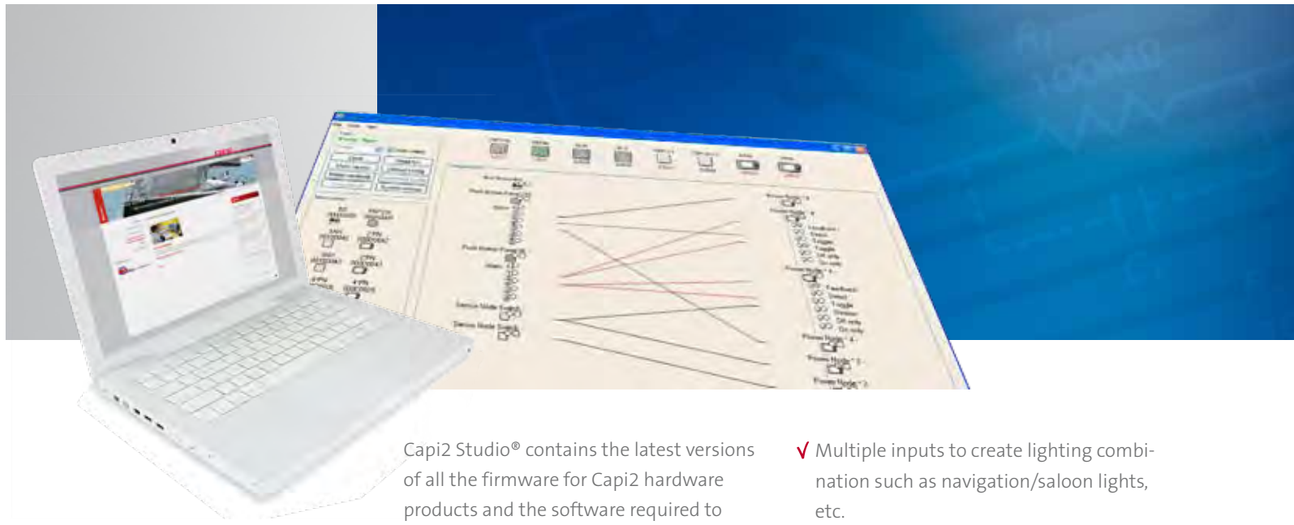
- The reduced amount of cabling not only makes the system reliable, but also decreases risks of, for example, fire.
- Nodes are insensitive to vibrations and are completely encased, which makes them completely weather-proof.
- Quick error diagnostics using Capi2 software and desktop sharing via the Internet.
- If a device malfunctions, only node to which it is connected will shut down, the rest will continue to operate.
- Multi-configuration possible; a node can be programmed to have several functions.
- Low power consumption in stand-by mode: 0.01-0.04mA per node.

Program overview

ship length	1-8 m	6-10 m	1-8 m	6-10 m	10-12 m	13-16 m	10-12 m	13-16 m
Capi2 panels serie								
Capi2 Touch Screen 3" /	-	-	-	-	-	1	1	1
Switch interface	1	2	2	3	4	5	4	5
Capi2 Touch screen 5.7" or Push-button board 21 keys or Monitouch 10.4"	-	-	-	-	1	1	1	1
Bus generator	1	1	1	1	1	1	1	1
Installation software								
Capi2 Studio (easy install)	1	1	1	1	1	1	1	1
AC/DC Power modules								
Compact power module	1	2	2	3	-	-	-	-
DC Power node module	-	-	-	-	4	5	5	7
DC Power/sensor module	-	-	-/1	1	1	2	1	2
AC Relay module for 12V system	-	-/1	-	-/1	1	2	-	-
AC Relay module for 24V system	-	-	-	-/1	2	2	3	4
Lighting modules (LED)								
Light control module	1	1	1	1-2	2	3-5	4	6
Interfaces								
NMEA Interface	-	-	-	-	-	-/1	-	-/1
Victron	-/1	-/1	-/1	-/1	-/1	-/1	-/1	-/1
Universal interface	-/1	-/1	-/1	-/1	-/1	-/1	-/1	-/1

EASY CONFIGURATION

With Capi2 Studio® you can program and configure your complete Capi2 system. Capi2 Studio® is unique and has numerous self-learning features.



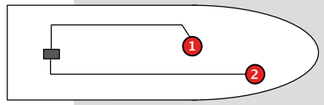
CONFIGURATION SOFTWARE DOWNLOADABLE FROM THE SITE

TALOR-MADE CONFIGURATION

Capi2 Studio® contains the latest versions of all the firmware for Capi2 hardware products and the software required to reprogram the devices. Download the latest version of Capi2 Studio from the Capi2 website to update the firmware on your devices.

The following can be programmed with Capi2 Studio®

- √ 12V or 24V operation
- √ Digital fuses of the power node modules 3/6/10/13/16 Amp
- √ Timer functions; bilge pump, propane relays, departure lights
- √ Alarms; defective lamp broken cable, high water
- √ Dimmer functions for halogen and several types of LED lights
- √ Momentary/Toggle switch
- √ Multiple inputs to create lighting combination such as navigation/saloon lights, etc.
- √ Multiple loads/group of loads to one switch or single switch for all lights
- √ Acoustic and visual feedback for bilge pumps
- √ Standby function of loads when system is shut down; refrigerator and bilge pumps
- √ Power management priorities with automatic shutdown of low priorities at low current
- √ Automatic start-up of high priority loads if digital communication fails
- √ Tank monitoring



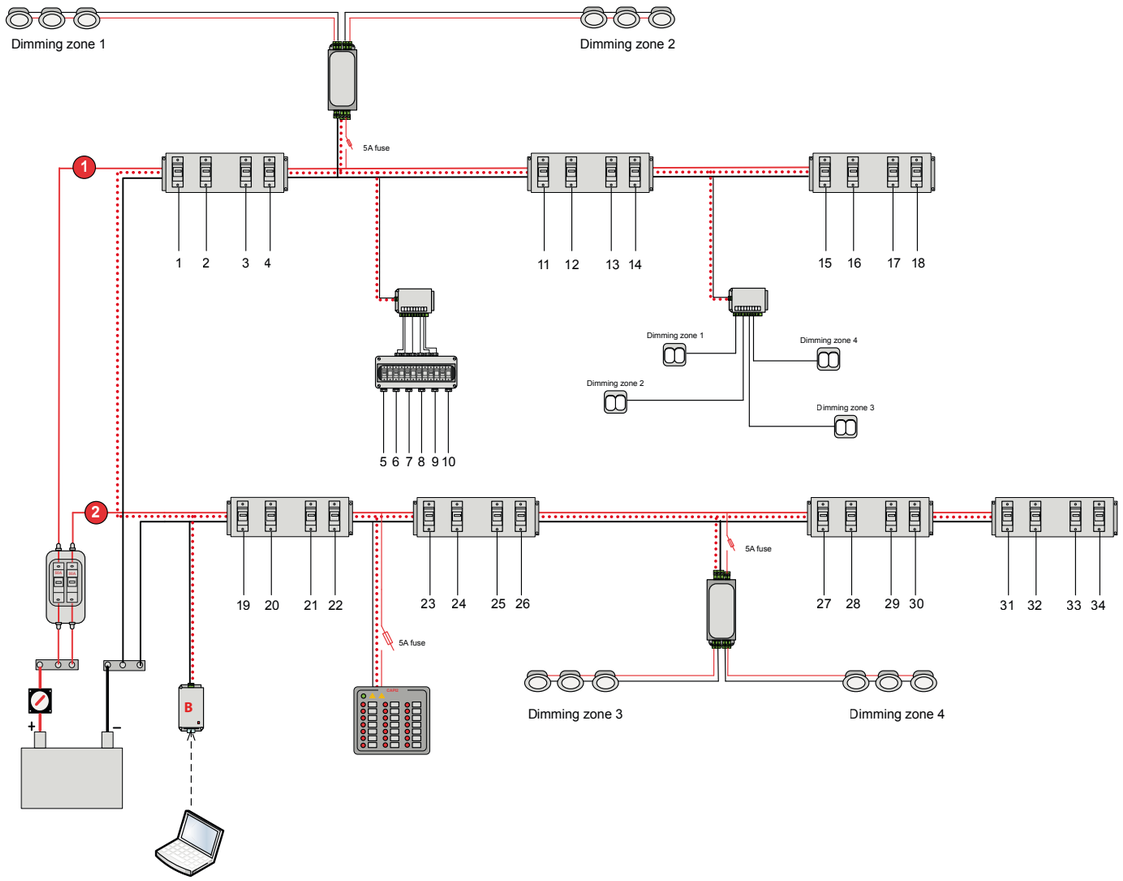
32

groups of loads

16–24h

1 + 2

Max. 10 m / 33 feet, 80A
∅ Main feeders: 16 mm2 / AWG 4
∅ Bus cable: 1.5 mm2 / AWG 14



main feeders

Bus generator

switch interface 8 key

AC–module

DC power node

push–button board
21 keys

switches

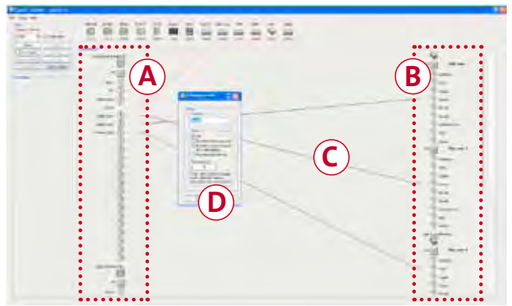
Light Control Module

Capi2 Studio

EASY SOFTWARE

Download Capi2 Studio

Make configuration easy by downloading the Capi2 Studio® software. It contains the latest versions of all the firmware for Capi2 hardware products and the software required to reprogram the devices. Download the latest version of Capi2 Studio from the Capi2 website to update the firmware on your devices.



Start configuration

Create a complete setup in 6 steps. After this you will be ready to download the configuration into the system.

Step 1 Fill in system settings such as date, project name, setup voltage etc.

Step 2 Choose your input modules [A]

Step 3 Choose your output modules [B]

Step 4 Setup the functionalities of the input and output modules

Step 5 Pull the visual cables [C] between input and output modules

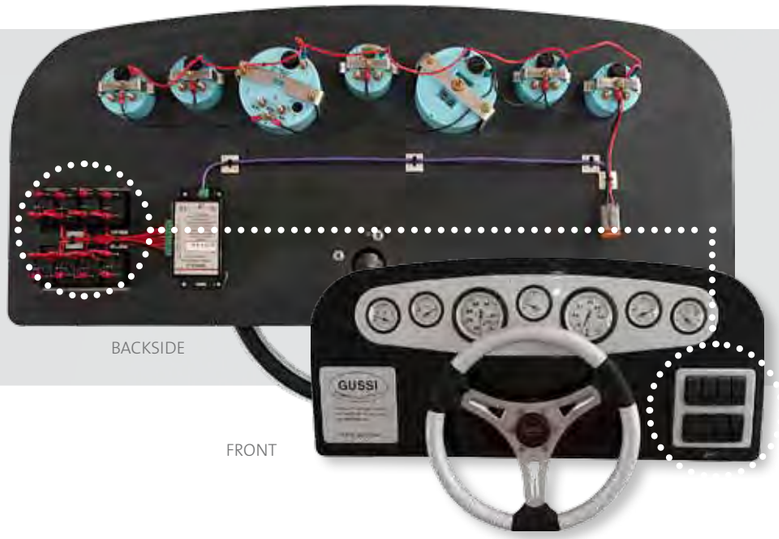
Download the configuration from your computer to the installed Capi2 system. Print configuration for your own administration

Note: the configuration will be stored into the bus generator which is connected to the Capi2 system and can always be uploaded for future changes.

SWITCHING

Control via digital energy-electronics using standard ship cables and screw terminals makes installation really easy. The switchboards are designed to withstand the toughest conditions at sea.

SWITCH INTERFACE 8 KEYS



BACKSIDE

FRONT

21 PUSHBUTTON PANEL

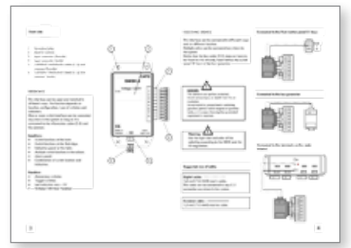
TOUCH SCREEN 5,7"

TOUCH SCREEN 3"

The Capi2 switching panels product group contains a comprehensive series of articles ranging from traditional switches to ultra-modern touch screens. The 8-switch interface enables, for example, the renovation of existing control panels or dashboards. The touch screens can display real-time data and increase the interactivity with your boat. The screen design and programming can, if necessary, be completely customised in accordance with your wishes.

Plug and Play

The switchboards in this advanced bus system are easy to use and install. No soldering or protective cabling is needed, which reduces the installation time. All products are supplied with a clear user manual and you can, of course, contact Capi2 if you have any questions or problems with installation.

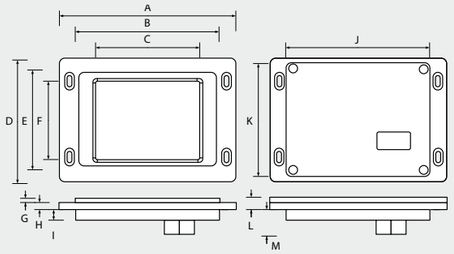


CLEAR USER MANUALS

Capi2 Touchscreen 3" [ART. 100600]

This is a three inch color touch screen that will control up to six different loads. It includes not only switch functions but also alarms for short circuit and broken lamp cable or blown bulb. The alarm will show the type of alarm/location of node/ name of node and serial number of node, all for very easy fault findings.

The unit can be mounted in horizontal or vertical position. Because of the small mounting depth the screen can be easily integrated into nearly any dash panel or console.



SIZES: MM/INCH	D: 70 / 2.8	H: 4 / 0.16	L: 7 / 0.28
A: 100 / 3.9	E: 56.6 / 2.2	I: 6 / 0.24	M: 15 / 0.59
B: 81.5 / 3.2	F: 44.4 / 1.7	J: 81.6 / 3.2	
C: 59 / 2.3	G: 2.4 / 0.09	K: 64 / 2.5	

Technical specifications

OPERATING VOLTAGE:	12V-24V
AMOUNT OF SWITCHES:	4 OR 6
STANDBY POWER CONSUMPTION:	5.9MA
ACTIVE POWER CONSUMPTION:	28.3MA
ENCAPSULATION:	IP 64
RECOMMENDED LOCATION:	RAIN PROTECTED AREA

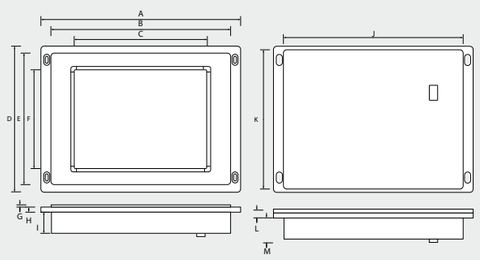
STORAGE TEMP:	-30°C/-22°F TO 80°C/176°F
OPERATIONAL TEMP:	-20°C/-4°F TO 70°C/158°F
WEIGHT:	104G/0.22 LBS
PRINT BOARD HAS A COATED SURFACE	
IGNITION PROTECTED:	NO
FRONT COLOR:	WHITE, BLACK OR SILVER

Capi2 Touchscreen 5.7 [ART. 100610]

Control up to 50 different loads/groups spread over 5 pages.

Integration with the newest high precision battery monitors from Victron Energy.

- √ Control up to 50 loads/groups
- √ 5 Pages
- √ Calculate ampere-hours consumed [i.c.w. interface]
- √ Calculate the state of charge of a battery [i.c.w. interface]
- √ Tank monitoring
- √ Victron battery monitoring, inverter/charger control.



SIZES: MM/INCH	D 130 / 5,12	H 4,3 / 0,17	L 8 / 0,32
A 180 / 7,09	E 117 / 4,61	I 20 / 0,79	M 22 / 0,87
B 161 / 6,34	F 89 / 3,50	J 161 / 6,34	
C 118 / 4,65	G 2,2 / 0,09	K 125 / 4,92	

Technical specifications

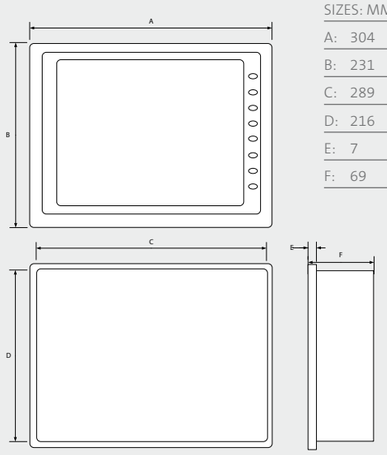
OPERATING VOLTAGE:	12V-24V
AMOUNT OF SWITCHES:	50
STANDBY POWER CONSUMPTION:	5,9 MA
ACTIVE POWER CONSUMPTION:	35 MA
ENCAPSULATION:	IP 64
RECOMMENDED LOCATION:	RAIN PROTECTED AREA

STORAGE TEMP:	-30°C/-22°F TO 80°C/176°F
OPERAT. TEMP:	-20°C/-4°F TO 70°C/158°F
WEIGHT:	500 G/100 IBS
PRINT BOARD HAS A COATED SURFACE	
IGNITION PROTECTED:	NO

Monitouch Touch Screen 10.4" [ART. 100430]

This Monitouch Touch screen is developed for larger yachts and with the possibility to control all 24V and 220V loads.

- √ For indoor use only
- √ IP65 front proof
- √ Anti-corrosion
- √ Resistive touch
- √ Anti-reflictive protection glass



SIZES: MM/INCH	
A: 304	/ 12
B: 231	/ 9,1
C: 289	/ 11,4
D: 216	/ 8,5
E: 7	/ 0,27
F: 69	/ 2,7

Technical specifications

OPERATING VOLTAGE:	24V DC
INRUSCH CURRENT	20A, 2MS
ACTIVE POWER CONSUMPTION:	25 W
CONTROL BUTTON:	VARIOUS OPTIONS
SWITCHING:	MOMENTARY/ TOGGLE
INDICATOR:	VARIOUS OPTIONS
VISUAL/ AUDIBLE ALARM:	VARIOUS OPTIONS
RESOLUTION:	800 X 600 PX

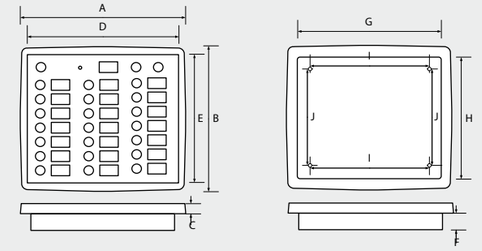
TFT:	COLOUR LCD
STORAGE TEMP:	-10°C/-50°F TO 50°C/122°F
WEIGHT:	2,5 KG
COATED SURFACE:	YES
IGNITION PROTECTED:	NO
IP PROOF:	IP65 WITH GASKET / IP20 FROM REAR
CERTIFICATIONS: EN61000-6-2, EN61000-6-4, UL 50B, UL1604, CE, FCC, DNV	

Push-button board 21 keys [ART. 100150]

The push-button board can be placed parallel with other Capi2 panels. The options include a customized overlay.

Includes functions such as

- √ Momentary or toggle switching
- √ Timer functions
- √ Visual and audible warning for low current
- √ Resetting electronic fuses in the nodes
- √ Defective cable/lamp indicator
- √ Adjustable backlight and replaceable symbols



SIZES: MM/INCH	C: 10 / 0.4	F: 18.5 / 0.7	I: 135 / 5.3
A: 187 / 7.4	D: 171.5 / 6.8	G: 162.5 / 6.4	J: 109 / 4.3
B: 165 / 6.5	E: 145 / 5.7	H: 138 / 5.4	

Technical specifications

21 KEYS	
OPERATING VOLTAGE:	12 V-24 V
STANDBY POWER CONSUMPTION:	<0,1MA
ACTIVE POWER CONSUMPTION:	100MA
SPLASH WATERPROOF	
STORAGE TEMP:	-20°C/4°F TO 70°C/158°F

OPERATIONAL TEMP:	-4°C/24°F TO 50°C/122°F
WEIGHT:	564 G/1.24 LBS
PRINT BOARD HAS A COATED SURFACE	
IGNITION PROTECTED:	NO

Switch interface 8 keys

[ART. 100300]

Customized switch panels can be built using the 8-key switch interface. Toggle or momentary switches can be used.

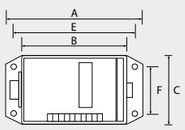
Dual commands is an option on bigger boats; a parallel set-up with other Capi2 panels facilitates dual commands, e.g. on the fly bridge or in the living room to control various lighting options. This switch interface can be used as a main panel on smaller boats.

Customized indicator panel

Use this interface to build customized indicator panels for navigation lighting, bilge pumps and alarms

Alarm

This interface can also be used to indicate 8 different open/close signals for alarms such as high water, open hatch, open window etc.



SIZES: MM/INCH			
A:	110 / 4.3	C:	56 / 2.2
B:	89 / 3.5	D:	26 / 1.0
		E:	99 / 3.9
		F:	38 / 1.5

Technical specifications

OPERATING VOLTAGE:	12V-24V
TIN-PLATED SCREW CONNECTIONS	
8 TOGGLE SWITCHES OR 4 MOMENTARY SWITCHES OR AND 4 LED 8 LED 8 OPEN/CLOSE SIGNALS	

LED OUTPUT	MAX. 3V
PRINT BOARD HAS A COATED SURFACE	
IGNITION PROTECTION:	NO
POLARITY PROTECTION:	YES
WEIGHT:	76 G/0.17 LBS

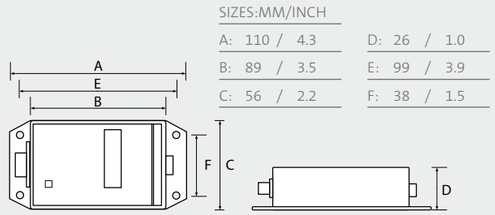
Applications

- √ To build customized panels
- √ Create dual commands on boats
- √ Control various lighting options

Bus generator

[ART. 300100]

Every boat needs a bus generator so that digital messages can be created.



SIZES:MM/INCH			
A:	110 / 4.3	D:	26 / 1.0
B:	89 / 3.5	E:	99 / 3.9
C:	56 / 2.2	F:	38 / 1.5

Technical specifications

OPERATING VOLTAGE:	12V/24V
SCREW CONNECTOR	TIN-PLATED
SCREW CONNECTOR MAX CURRENT:	10A
COMPUTER INTERFACE:	RS232 OR USB/RS232 CONVERTER
PRINT BOARD HAS A COATED SURFACE	
IGNITION PROTECTED:	NO
POLARITY PROTECTION:	YES
WEIGHT:	92 G/0.21 LBS
CERTIFICATIONS:	CE, ABYC

CONNECTION:	RS232-SCREW CONNECTION
POWER OUTLETS:	13 W
IP PROOF:	IP64
STORAGE TEMP:	-20°C/-40°F TO 70°C/158°F
OPERAT. TEMP:	-4°C/-24°F TO 50°C/122°F
WEIGHT:	90 G/0.21LBS

DOMOTICA FOR YACHTS

CAPI2 NAVETICA

Capi2 Navetica integrates all electrical systems, devices and equipment in yachts for increased comfort, convenience, safety, security and energy-efficiency.

You often have to leave your boat unattended in a marina miles away, but you still need to know whether there is, for example, enough fuel on board for heating in the winter. If there is a storm, it is also certainly reassuring to be able to check the situation on board from wherever you happen to be in the world.

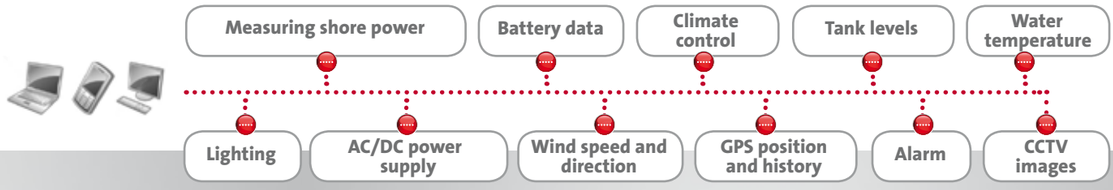
Features

- √ 24/7 on-board control
- √ information feedback system
- √ comfort and safety

CAPI2 NAVETICA

TOTAL CONTROL OF YOUR BOAT ... WHENEVER AND WHEREVER

COMPATIBLE WITH
SMARTPHONE, IPAD, PC AND
ON-BOARD PANEL PC



Optimal control

The Capi2 Navetica system continually monitors the status of your boat. In an emergency, a text message can be sent to you or the harbour master and you can switch equipment on and off remotely via a WiFi or 3G connection.

Safety

For security and monitoring the situation on and around your boat, a sophisticated camera system (CCTV) is fitted on board. Live images can be viewed remotely via a smartphone or PC and footage of alarm situations can be saved. It is even possible to operate the cameras remotely.

The camera images can also be displayed on your on-board TV circuit or on a monitor in the wheel house. This makes the cameras a useful aid in navigating and mooring.

Internet - AV - Entertainment

A yacht is not complete if it is not fitted with good communication equipment. It is impossible to imagine life today without the Internet and Capi2 supplies a simple yet reliable connection. An X-box and PlayStation can also be installed on board.

Comfort

Capi2 Navetica gives you control of everything on board, including, for example, the heating, air conditioning, interior and exterior lighting and even the window blinds.

Capi2 Navetica radically simplifies operating the equipment you have on board, such as a TV, DVD-player, etc. by replacing all the remote controls with a single unit.

Position tracking

A boat's GPS location is continually read. This data can also be logged with an adjustable timer that allows the route that the boat has sailed to be displayed in Google Maps. This tracking system is really practical for rented yachts. A Smartphone or PC can be used to check where the boat is sailing or at anchor.

Installation

Capi2 can configure your boat entirely in accordance with your wishes. Capi2 is the market leader in and has the specialist expertise required for fitting marine power supply and control systems.

LIGHTING

Capi2 has developed a light control module [LCM] that gives you optimal performance, connectivity and usability. Control and dim your lights cost-effectively.

LCM [LIGHT CONTROL MODULE]

More and more LED lights are being introduced on the market. A common problem is how to control and dim them in a cost-effective manner. Capi2 has developed a Light Control System [LCM] that gives you optimal performance, connectivity and usability. Control and dim your lights cost-effectively. The LCM can be used in different ways; for controlling light groups [all type of led lights] that need to be dimmed or in a existing Capi2 installation. No special expensive thirdparty unit is needed any more. Just connected It to the information cable (C-2) and the common.

The light control module is a small unit to which both halogen and several types of LED lights can be connected and fully controlled. It can be incorporated into a digital stand-alone light system or, alternatively, a complete digital system from Capi2. It is both easy to install and to program.

Features

- √ Full remote control
- √ 2 Dimming zones
- √ Soft start
- √ Direct, digital and analogue dimming
- √ Short circuit protection
- √ Advanced hotel switching with multiple locations
- √ Power width modular (PWM) technology

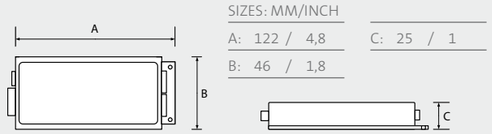
Light Control Module [LCM]

[ART. 200900]

Technical specifications

LED VOLTAGE:	12V-24V	INDUCTIVE LOADS:	NO
POWER OUTLET, SWITCH INPUT:	2, 1	REMOTE CONTROL:	YES
FUSE:	DIGITAL 2,5A, BLADE FUSE 4A	FUNCTIONS:	DIMMERS, TIMERS
SOFT START:	YES	WEIGHT:	88 G
IGNITION PROTECTED:	NO		

Measurements



SIZES: MM/INCH

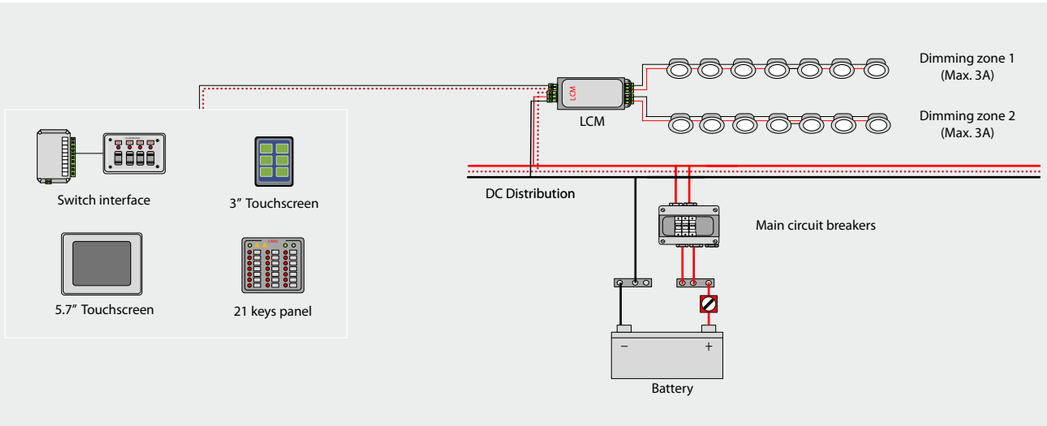
A: 122 / 4,8	C: 25 / 1
B: 46 / 1,8	

Approved suppliers

Capi2 has tested several types of LED lights from different suppliers. The following suppliers have been approved by Capi2

OceanLED · TECHNOLED · HELLA · i2Systems · Quick · Cantalupi · imtra

EXAMPLE SCHEME



INTERFACES

Modern boats contain a large amount of equipment, such as navigation instruments, depth gauges, and automatic steering gear, that each have their own communication protocols such as NMEA, SeaTalk or variations of CAN-bus or Modbus.

CANMOD-BUS INTERFACE

BMV VICTRON INTERFACE

NMEA INTERFACE

Capi2 has developed various interfaces that can communicate with several of these systems. Capi2 interfaces include a NMEA interface, a universal interface, a Victron Interface and a CAN/MOD bus interface. All our interfaces are specially designed to increase the ease of use for our customers. The Capi2 protocol is compatible with software and interfaces developed by other manufacturers.

NMEA interface

[ART. 100570]

Capi2 has developed a gateway for interfacing our products to the NMEA 2000 bus. Through this interface can all appliances controlled by Capi2 be monitored and controlled through a NMEA device (plotter/touch screen).

NMEA 2000

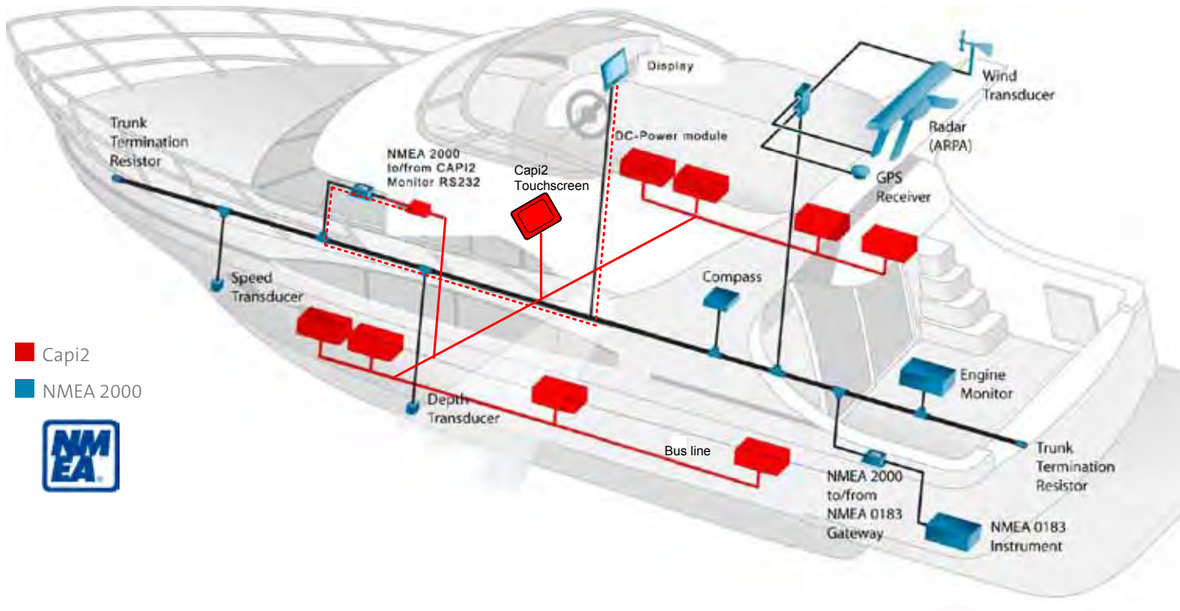
The National Marine Electronics Association (NMEA) has introduced a standard (NMEA 2000) for data communications among shipboard electronic devices. The NMEA 2000 network can accommodate navigation equipment, power generation, engines and machinery, piloting and steering systems, fire alarm, and controls.

Technical specifications

OPERATING VOLTAGE:	12V/24V
CAPI2 CONNECTOR:	PHOENIX 3 POLE
NMEA CONNECTOR:	BINDER M12
PRINTBOARD HAS COATED SURFACE:	YES
IGNITION PROTECTED:	NO
POLARITY PROTECTION:	YES
WEIGHT:	125 G/0,27 LBS
CERTIFICATIONS:	CE, ABYC, NMEA
IP PROOF	IP64
STORAGE TEMP:	-20C/-40F TO 70C/158F
OPERATING TEMP:	-4C/-24F TO 50C/122F

Applications

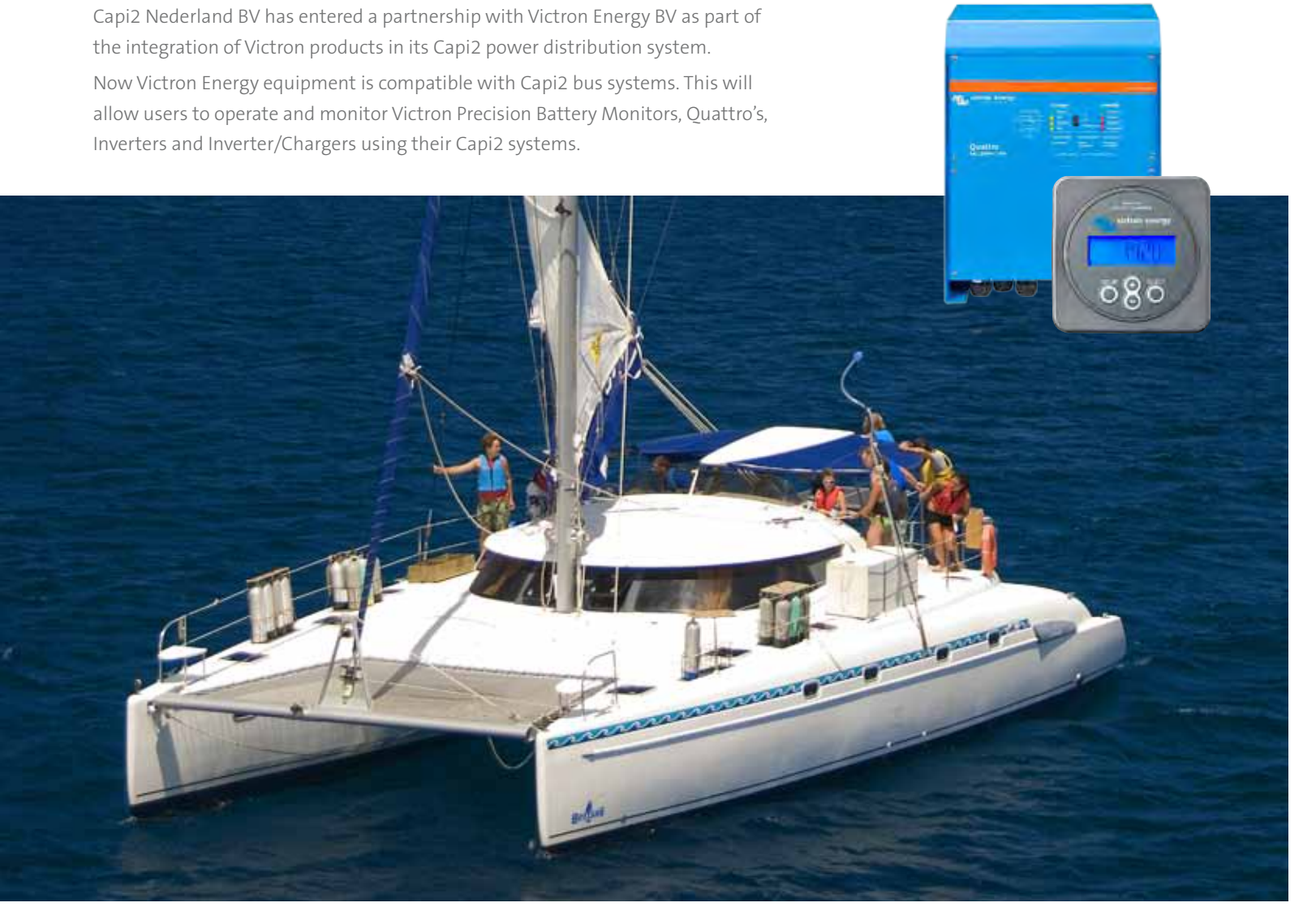
NMEA plotters, NMEA touchscreens,



Victron energy and Capi2

Capi2 Nederland BV has entered a partnership with Victron Energy BV as part of the integration of Victron products in its Capi2 power distribution system.

Now Victron Energy equipment is compatible with Capi2 bus systems. This will allow users to operate and monitor Victron Precision Battery Monitors, Quattro's, Inverters and Inverter/Chargers using their Capi2 systems.



Uninterrupted Current from Victron Energy

Power specialist Victron is constantly devising new solutions for power supplies in extraordinary locations. The company is a leading supplier of self-sufficient off-grid systems for the maritime, industrial, automotive, off-grid and rehabilitation markets. Its product range includes sinusoidal inverters, charger/inverters, battery chargers, DC/DC converters, switch panels, and intelligent Battery Monitor, Global Remote and Blue Solar Panel products. Victron Energy has earned itself an enviable and unrivalled reputation in the field of technical innovation, reliability and durability. Its products are regarded worldwide as the no. 1 professional choice for self-sufficient electrical power generation.

Victron BMV interface [ART. 300730]

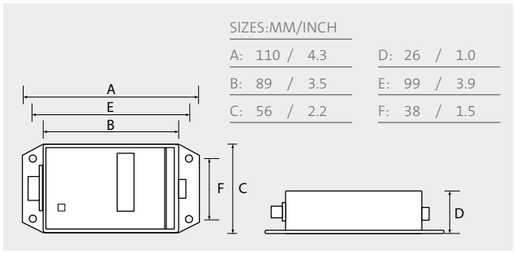
The interface makes it possible to read measurements such as battery voltage, discharge and charging status. Data can be displayed in Ampère-hours, (Ah) or in %.

Applications:

Vicron BMV, Quatro, Multiplus.

A complete set contains the following:

- Interface
- RS232 kabel.

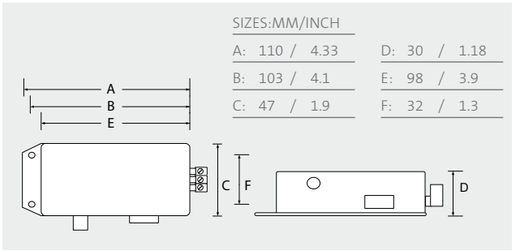


Technical specifications

OPERATING VOLTAGE:	12V/24V
SCREW CONNECTOR:	TIN-PLATED
SCREW CONNECTOR MAX CURRENT:	10A
COMPUTER INTERFACE:	RS232 OR USB/RS232 CONVERTER
PRINT BOARD HAS A COATED SURFACE	
IGNITION PROTECTED:	NO
POLARITY PROTECTION:	YES
WEIGHT:	92 G/0.21 LBS
CERTIFICATIONS:	CE, ABYC
CONNECTION:	RS232-SCREW CONNECTION
POWER OUTLETS:	13 W
IP PROOF:	IP64
STORAGE TEMP:	-20°C/-40°F TO 70°C/158°F
OPERAT. TEMP:	-4°C/-24°F TO 50°C/122°F

Victron Can/Mod-bus Interface ART. 300720

Operate and monitor Quattro's, Inverters and Inverter/Chargers using a Capi2 5.7" Touchscreen.



Technical specifications

OPERATING VOLTAGE	12V/24V
CAPI2 CONNECTOR	PHOENIX 3 POLE
CAN CONNECTOR	BINDER M12
MOD CONNECTOR	RJ45
PRINTBOARD HAS COATED SURFACE	YES
IGNITION PROTECTED	NO
POLARITY PROTECTION	YES
WEIGHT	98 G/0.22 LBS
CERTIFICATIONS	CE, ABYC
IP PROOF	IP64
STORAGE TEMP	-20°C/-40°F TO 70°C/158°F
OPERATING TEMP	-4°C/-24°F TO 50°C/122°F

Applications

VICRON BMV, QUATRO, MULTIPLUS.

CAN/Modbus interface

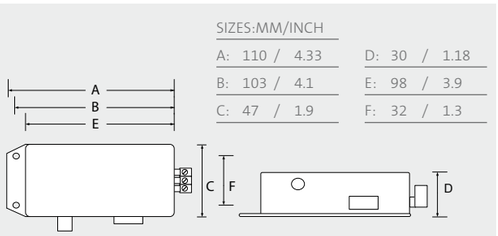
[ART. 300700]

Available first quarter 2012

Get one step closer to total system integration. The CAN/Modbus Gateway from/to Capi2 is an electronic tool that facilitates two-way communication between CAN-bus or Modbus devices and the Capi2 bus.

Now nothing stands in the way of using the car-industry philosophy 'Different bus systems for different functions'.

- √ Control the inverter, charger or air-conditioning in combination with other equipment from a Capi2 touchscreen.
- √ Install CAN-bus or Modbus based touchscreens with integrated motor management and control your electrical appliances and lights, which are connected to Capi2.
- √ Victron Energy equipment is compatible for use with Capi2 bus systems. It allows users to operate and monitor Quattros, Inverters and Inverter/Chargers using their Capi2 5.7" Touchscreen. See under Victron CAN/Modbus Interface.



SIZES:MM/INCH

A:	110 / 4.33	D:	30 / 1.18
B:	103 / 4.1	E:	98 / 3.9
C:	47 / 1.9	F:	32 / 1.3

Applications

Inverters, chargers, battery monitoring, heating.

Technical specifications:

OPERATING VOLTAGE	12V/24V	WEIGHT	98G/0.22 LBS
CAPI2 CONNECTOR	PHOENIX 3 POLE	CERTIFICATIONS	CE ABYC
CAN CONNECTOR	BINDER M12	IP PROOF	IP64
MOD CONNECTOR	RJ45	STORAGE TEMP	-20°C/-40°F TO 70°C/158°F
PRINTBOARD HAS COATED SURFACE	YES	OPERATING TEMP	-4°C/-24°F TO 50°C/122°F
IGNITION PROTECTED	NO		
POLARITY PROTECTION	YES		

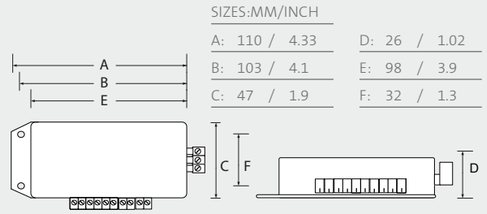
Universal interface

[ART. 300740]

Available first quarter 2012

The Universal Interface is Capi2's multifunctional interface for a total of 4 different applications. Use the Universal Interface to control relays, to switch on/off LED lights, set up alarm indicators and create smart switching on board your ship. Control everything that consumes a max. of 1 Amp.

- √ Set up smart switching
- √ Indicate open/closed alarms
- √ Switch LED lights on/off
- √ Control 220V/110V relays, bow thrusters, windlass or remote battery switches.



SIZES:MM/INCH

A:	110 / 4.33	D:	26 / 1.02
B:	103 / 4.1	E:	98 / 3.9
C:	47 / 1.9	F:	32 / 1.3

Applications

LED lights, light switching, windlass, bow thruster, 220V/110V, and alarms. Available: first quarter 2012

Technical specifications:

OPERATING VOLTAGE	12V/24V	PRINTBOARD HAS COATED SURFACE	YES
CAPI2/POWER CONNECTOR	PHOENIX 3 POLE	IGNITION PROTECTED	NO
POWER CONNECTOR MAX CURRENT	10A	POLARITY PROTECTION	YES
OUTPUTS/INPUTS	8	WEIGHT	105G/0.23LBS
1-8 SWITCH INPUTS		CERTIFICATIONS	CE ABYC
1-8 OPEN/CLOSE INPUT SIGNALS		IP PROOF	IP64
1-8 POWER OUTPUTS		STORAGE TEMP	-20°C/-40°F TO 70°C/158°F
MAX CURRENT PER POWER OUTPUT	1 AMP	OPERATING TEMP	-4°C/-24°F TO 50°C/122°F
MAX TOTAL OUTPUT	6 AMP		

POWER MODULES

Capi2 developed the AC relay module and DC power node modules to increase the on-board comfort level and safety. These power modules provide lights, instruments and pumps with the correct voltage so that, among other things, the risk of overloading is minimised and any malfunctions are made visible immediately.

DC POWER NODE MODULE AND DC POWER/SENSOR MODULE

CPM [COMPACT POWER MODULE]

AC RELAY MODULE

One or more ring system(s) consisting of a red and a black battery cable, and a purple data cable are fitted to the boat's battery. The electronically controlled DC power node modules that provide the lights, instruments and pumps with the correct voltage are installed in the ring systems.

A power node module has 4 outlets. Each outlet has a chip that communicates with the Capi2 control panel or touch screen and indicates the exact status of on-board equipment. The power node modules are installed close to power-consuming equipment to reduce the amount of cabling and weight.

With our free installation software, you can configure your boat entirely according to your wishes. You can, for example, select the preferred amperage (from 3A to 16A) for each outlet, create dimmers, timers or special switching combinations for lighting.

For the automotive industry a compact power module is developed for serial production builders who want to integrate the benefits of a digital bus system, but at a reasonable price.

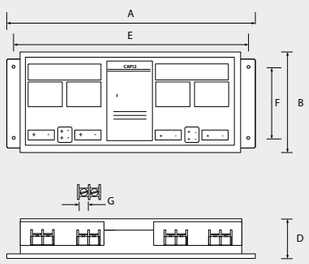
Capi2 developed the AC relay module for connecting 230V devices. With this module, 3 different devices can be hooked up, giving you total control of all the electrical power consumption on board your boat.

DC Power node module screw connection

[ART. 200100]

Contains power nodes that are programmable for 3A/ 6A/ 10A/ 13A/ 16A power consumption. In the event of an emergency situation, each node can be bypassed using a standard blade fuse. The nodes are fully potted.

- 4 Power nodes
- 12V-24V
- Programmable for 3A/6A/10A/13A/16A
- Screw Connection
- Standard marine cable for digital information
- Polarity protection
- Bypass for each load with a blade fuse



SIZES IN MM/INCH	
A:	220 / 8,7
B:	89 / 3,5
D:	35 / 8,2
E:	208 / 2,5
F:	63 / 0,3

Technical specifications

OPERATING DC VOLTAGE:	12V-24V
POWER OUTLETS:	4
DIGITAL FUSE:	3/6/10/13/16 A
SURGE CAPACITY:	90A /2 MS
DEFECTIVE CABLE/LAMP INDICATOR:	30MA
POWER CONSUMPTION IN STANDBY:	0.1-0.4 MA
ELECTRONIC SYSTEM BYPASS:	YES
IGNITION PROTECTED:	NO
POLARITY PROTECTION:	YES
FULLY POTTED:	YES
WEIGHT:	375 G/0.83 LBS

CONNECTOR MAIN FEEDER

SCREW:	6 MM/0.24 INCHES/BRASS
FUSE:	120A

CONNECTOR DIGITAL CABLE

SCREW:	3 MM/0.12 INCHES/BRASS
FUSE:	10A

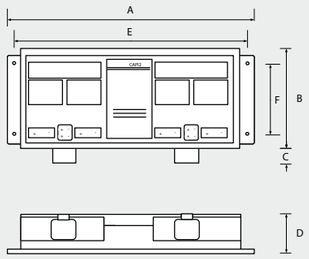
CONNECTOR TO LOADS

SCREW:	4 MM NICKEL PLATED
TERMINAL:	BRASS/TIN-PLATED
WASHER:	STEEL/ZINC CLEAR CHROMATE
FUSE:	MAX 16A

DC Power node module Deutsch connection

[ART. 200200]

The same module as art. 200100 but with a water tight single connector [Deutsch]. The maximum power is 13A in stead of 16A.



SIZES IN MM/INCH	
A:	220 / 8,7
B:	89 / 3,5
C:	15 / 1,4
D:	35 / 8,2
E:	208 / 2,5
F:	63 / 0,3

Technical specifications

OPERATING DC VOLTAGE:	12V-24V
POWER OUTLETS:	4
DIGITAL FUSE:	3/6/10/13 A
SURGE CAPACITY:	90 A/ 2MS
DEFECTIVE CABLE/LAMP INDICATOR:	30MA
POWER CONSUMPTION IN STANDBY:	0.1-0.4 MA
ELECTRONIC SYSTEM BYPASS:	YES
IGNITION PROTECTED:	NO
POLARITY PROTECTION:	YES
FULLY POTTED:	YES
WEIGHT:	375 G/0.83 LBS

CONNECTOR MAIN FEEDER

SCREW:	6 MM/0.24 INCHES/BRASS
FUSE:	120A

CONNECTOR DIGITAL CABLE

SCREW:	3 MM/0.12 INCHES/BRASS
FUSE:	10A

CONNECTOR TO LOADS

WATERTIGHT DEUTSCH CONNECTOR	
FUSE:	MAX 13A

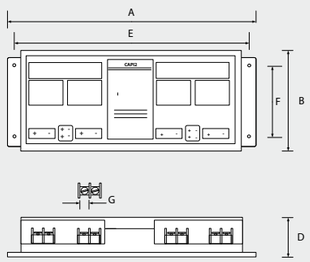
DC Power/sensor module screw connection

[ART. 200300]

Contains 2 power nodes that are programmable for power consumption and 2 sensor nodes programmable as dimmers, floaters, switches, alarms, tank monitoring and timer funtions.

In the event of an emergency situation, each node can be bypassed using a standard blade fuse.

- 2 Power nodes and 2 sensor nodes
- 12V-24V / Programmable for 3A, 6A, 10A, 13A or 16A
- Polarity protection
- Bypass with a blade fuse
- Screw connection



SIZES IN MM/INCH	
A:	220 / 8,7
B:	89 / 3,5
D:	35 / 8,2
E:	208 / 2,5
F:	63 / 0,3

Technical specifications

OPERATING DC VOLTAGE:	12V-24V
POWER OUTLETS:	4
DIGITAL FUSE:	3/6/10/13 A
SURGE CAPACITY:	90 A/2 MS
DEFECTIVE CABLE/LAMP INDICATOR:	30MA
POWER CONSUMPTION IN STANDBY:	0.1-0.4 MA
ELECTRONIC SYSTEM BYPASS:	YES
IGNITION PROTECTED:	NO
POLARITY PROTECTION:	YES
FULLY POTTED:	YES
WEIGHT:	375 G/ 0.83 LBS

CONNECTOR MAIN FEEDER

SCREW:	6 MM/ 0.24 INCHES/BRASS
FUSE:	120A

CONNECTOR DIGITAL CABLE

SCREW:	3 MM/ 0.12 INCHES/BRASS
FUSE:	10A

CONNECTOR TO LOADS

SCREW:	4 MM NICKEL PLATED
TERMINAL:	BRASS/TIN-PLATED
WASHER:	STEEL/ZINC CLEAR CHROMATE
FUSE:	MAX 16A

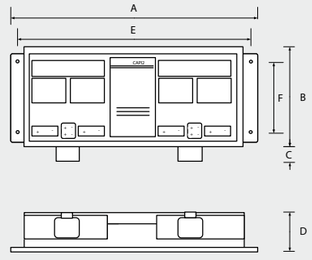
LEVEL MEASURING

0-300 Ω / 0-5 V

DC Power/sensor module Deutsch connection

[ART. 200400]

The same module as art. 200300 but with a water tight single connector [Deutsch]. The maximum power is 13A in stead of 16A.



SIZES IN MM/INCH	
A:	220 / 8,7
B:	89 / 3,5
C:	15 / 1,4
D:	35 / 8,2
E:	208 / 2,5
F:	63 / 0,3

Technical specifications:

OPERATING DC VOLTAGE:	12V-24V
POWER OUTLETS:	2
DIGITAL FUSE:	3/6/10/13 A
SURGE CAPACITY:	90 A/2 MS
DEFECTIVE CABLE/LAMP INDICATOR:	30MA
POWER CONSUMPTION IN STANDBY:	0.1-0.4 MA
ELECTRONIC SYSTEM BYPASS:	YES
IGNITION PROTECTED:	NO
POLARITY PROTECTION:	YES
FULLY POTTED:	YES
WEIGHT:	375 G/ 0.83 LBS

LEVEL MEASURING

0-300 Ω / 0-5 V

CONNECTOR MAIN FEEDER

SCREW:	6 MM/ 0.24 INCHES/BRASS
FUSE:	120A

CONNECTOR DIGITAL CABLE

SCREW:	3 MM/ 0.12 INCHES/BRASS
FUSE:	10A

CONNECTOR TO LOADS

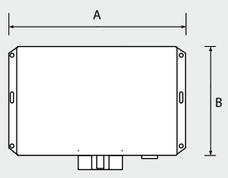
WATERTIGHT DEUTSCH CONNECTOR	
FUSE:	MAX 13A

Compact Power Module [CPM] [ART. 200800]

This power module is specially developed for serial production builders who want to integrate the benefits of a digital bus system, but at a reasonable price. At the special request of the automotive industry, the module was equipped with standard automotive fuses instead of digital fuses. This means that the Compact Module must be placed at an accessible location.

- √ Automatic start-up of load when the system is turned on
- √ Alarm with text message indicating location of blown fuse
- √ Automatic shutdown of load when in overload
- √ Alarm with text message indicating location of overload
- √ Multiple languages
- √ Multiple switching, including hotel switching
- √ LED indication on module indicating which fuse needs replacing
- √ Remote control

Measurements



SIZES: MM/INCH

A:	146 / 5,7	C:	30 / 1,2
B:	92 / 3,6		

Technical specifications

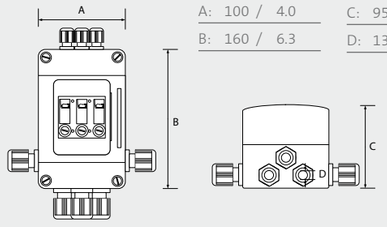
OPERATING DC VOLTAGE:	12V
POWER OUTLETS SINGLE/H-BRIDGE	8/4
FUSE	7 X < 15A 1 X < 30A
TOTAL CURRENT/MODULE	80 A
IGNITION PROTECTED	NO
POLARITY PROTECTED	NO
WEIGHT	300 G
RELAY DOUBLE POLE, DOUBLE THROW	

CONNECTION MAIN FEEDER	
SCREW	6MM/ 0,24 INCHES COPPER TIN PLATED MAX TORQUE 9,6 N
FUSE	120A
CONNECTION DIGITAL CABLE	
2 POLE CONNECTOR PHOENIX	
FUSE	3A
CONNNECTOR TO LOADS	
18 PIN. COPPER TIN PLATED	

AC Relay module for 12V [ART. 200500]

The Universal Interface is Capi2's multifunctional interface with total 4 different applications. Use the Universal Interface to control relays, to switch on/off LED lights, setup alarm indications and create smart switching on board of your ship. Control everything which consumes max. 1 Amp.

- √ Setup smart switching
- √ Indicate open/close alarms
- √ Switch on/off LED lights
- √ Control relays such as 220V/110V, bow thrusters, windlass or remote battery switches.



SIZES: MM/INCH

A:	100 / 4.0	C:	95 / 3.7
B:	160 / 6.3	D:	13.5 / 0.5

Technical specifications

CONTROL POWER:	12V	FUSE TYPE:	GLASS 16A 110V/220V
OPERATING AC VOLTAGE:	110V-220V	IGNITION PROTECTED:	NO
POWER OUTLETS:	3	ENCAPSULATION:	IP65
POWER OUTLET FUSE:	16A	WEIGHT:	640 G/1.4 LBS

AC Relay module for 24V [ART. 200600]

This unit is the same as art. 200500 but with a higher control-power, 24V in stead of 12V. Available 1st quarter 2012

Technical specifications

CONTROL POWER:	24V	FUSE TYPE:	GLASS 16A 110V/220V
OPERATING AC VOLTAGE:	110V-220V	IGNITION PROTECTED:	NO
POWER OUTLETS:	3	ENCAPSULATION:	IP65
POWER OUTLET FUSE:	16A	WEIGHT:	640 G/1.4 LBS

WHY CAPI2

ENVRIONMENT

Because the Capi2 only has 50% of the amount of cabling of conventional systems, its environmental impact is significantly lower. This also provides additional advantages, such as a lower total weight and a large reduction in installation time.

COMFORT

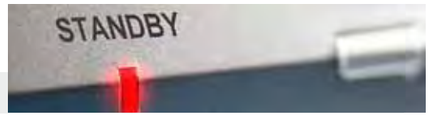
Use universal switches and assign dimmer or timer functions to lighting. Leave your boat feeling safer and let the lights switch off automatically only when you are no longer on board. Capi2 is easy to operate and gives you total control over all on-board equipment.

SAFETY

Because all installed equipment is digitally fused, the Capi2 increases general safety on board. Programmable timer functions, for example, for the windlass and gas solenoid valve so that they automatically shut down after a specific amount of time.

ASSISTANCE

With the supplied software, your boat can be completely programmed to suit your requirements. The desktop sharing function enables remote viewing so we can give you advice whenever you need it.



CONSUMPTION

It is very important that bilge pumps can be activated even when the system is switched off. Capi2 makes this possible because one power node only uses 0.1 mA in standby mode. A complete installation in a 12-meter yacht only uses 0.9 mA in standby mode. For example: a small tiller autopilot uses 40mA in standby mode.

ABOUT CAPI2

Capi2 Nederland BV is based in Brainport Eindhoven, the smartest region of the world. We develop and produce the Capi2 distributed power system and supply to end users and wholesalers, as well as special applications to wholesalers.

We are offering a broad range of products, including power and sensor modules, circuit breakers, panels, touch screens, fuse boxes, cabling and installation software.

Capi2 is a leading supplier of distributed power systems worldwide, mainly to yacht builders and electricians and is meant both for serial production and one time build in. With Capi2 modern technology in digital power electronics is cost-effective for 18ft to 80ft boats. It is fully potted to withstand harsh marine environments. Capi2 is the first manufacturer to also produce power distribution systems for smaller boats.

We are committed to ranking among the leaders who drive the development of new industry standards and groundbreaking developments in distributed power systems.

CAPI2
COMPLIES WITH
94/25EC
89/336/EEC

INTERNATIONAL
STANDARDS
ISO 10133

EMC APPROVALS
EN 61 000-6-2
EN 61 000-6-3
IEC 60533

CE APPROVAL
YES

COMPLIANCE WITH
ABYC: YES

PENDING

kemmekoolen
reclame en media

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CAPI2

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