SMARTER.YACHTS NODE V2

# Configuration Reference Manual

Firmware 2.3.0 · Build 01709
Field-by-field settings, allowed values and defaults
Published: 01 Nov 2026
https://smarter.yachts/manuals/configuration

# Disclaimer

This presentation or documentation is provided for general information. Product descriptions, illustrations, examples, roadmaps, schedules and commercial concepts do not constitute a binding offer, warranty or guarantee. Availability, functionality, compatibility, pricing and delivery schedules are subject to confirmation and may change.

Installation, integration, configuration, operation and maintenance must follow applicable laws, marine and electrical standards, safety requirements and equipment manufacturers' instructions. Responsibility remains with the appropriately qualified persons and organizations performing or operating the installation.

Some images have been generated or enhanced using artificial intelligence. Illustrations and interface mockups are provided for visualization and may differ from actual products, installations or available functionality.

To the fullest extent permitted by applicable law, Smarter.Yachts / APASWISS AG accepts no liability for loss or damage arising from reliance on this material. Binding obligations are governed by the applicable agreements and terms.

The General Usage, License & Installation Terms (GULIT) and Privacy Policy are available at:

https://smarter.yachts/gulit

https://smarter.yachts/privacy

© 2026 APASWISS AG. Smarter.Yachts is a brand of APASWISS AG. All rights reserved.

NODE V2 DOCUMENTATION

# Configuration Reference Manual

Field descriptions sourced from the Node V2 firmware configuration help.

## Introduction

This configuration reference is valid for Smarter.Yachts Node V2 firmware version **2.3.0**, build **01709**.

This reference documents the Node V2 `config.txt` settings as described in the firmware Config Help. The bold field name matches the Config Editor GUI; the smaller code label shows the internal configuration variable. Each setting is stored as KEY=VALUE. Mode-specific settings apply only to the selected operation mode. Examples are illustrative; the Node V2 Config Editor validates accepted values and ranges. The Default column shows values in the firmware-generated configuration template; these can differ from runtime initialization and invalid-value fallbacks. Such fallbacks are stated separately. Editor-only controls are marked explicitly. Allowed values include the exact Config Editor choices and firmware constraints. Differences between editor choices and configuration-file validation are stated explicitly. Text-length checks in the firmware count UTF-8 bytes. For enumerated fields, the permitted stored values are paired with the exact labels shown in the Config Editor.

Use the navigation links to jump to a section. Choose **Download PDF** for a ready-to-print copy with the Smarter.Yachts logo, publication date, and page numbers on every page. Choose **Print** to open the PDF in your browser, then use the PDF viewer's print control.

# General & UI

Configure the Node identity, display appearance, and general operating behavior. These settings determine how Node V2 is identified in the app and how routine system functions, such as scheduled reboots, behave.

## App Icon

Type: Enum

APPICON

Selects the icon displayed for this Node in the Smarter.Yachts App. Use an available icon resource that clearly identifies the controlled equipment. The editor offers the listed resources. The firmware validates the stored resource name as 1–48 bytes and truncates longer names; it does not restrict APPICON to this dropdown domain.

**Example**
`generator.png`

**Default**
`_default`

**Allowed values / range**

**`_default`** — Standard
**`blackwater.png`** — Blackwater
**`desalator.png`** — Desalator / Watermaker
**`divecompressor.png`** — Dive Compressor
**`gangway.png`** — Gangway
**`gangway-2.png`** — Gangway 2
**`furler.png`** — Furler
**`furler-2.png`** — Furler 2
**`generator.png`** — Generator
**`generatorfp.png`** — Generator - Fisher Panda
**`generatoroc.png`** — Generator - Cummins Onan
**`hydraulicvalve.png`** — Hydraulic Valve
**`motorizedpump.png`** — Pumps
**`tenderlift.png`** — Tenderlift
**`windlass.png`** — Windlass
**`windlassyacht.png`** — Windlass Yacht
**`switches.png`** — Switching classic
**`switcheselectronics.png`** — Switching Electronics
**`switchesplotter.png`** — Switching Plotter
**`switchesmodern.png`** — Switching modern
**`switchesoutdoor.png`** — Switching Outdoor
**`switchesspreader.png`** — Switching Spreader
**`smarteryachts.png`** — Smarter Yachts
**`SmarterYachts_1024x1024.png`** — Smarter Yachts 1024
**`customlogo1.png`** — Custom 1
**`customlogo2.png`** — Custom 2
**`customlogo3.png`** — Custom 3
**`customlogo4.png`** — Custom 4
**`splash.png`** — Splash
**`splashESP32.jpg`** — Splash ESP32
**`ico180.png`** — Icon 180
**`ico180_maskable.png`** — Icon 180 Maskable
**`ico192.png`** — Icon 192
**`ico192_maskable.png`** — Icon 192 Maskable
**`ico256.png`** — Icon 256
**`ico256_maskable.png`** — Icon 256 Maskable
**`ico320.png`** — Icon 320
**`ico512.png`** — Icon 512
**`ico512_maskable.png`** — Icon 512 Maskable
**`favicon.ico`** — Favicon
**`favicon_16x16.png`** — Favicon 16x16
**`favicon_32x32.png`** — Favicon 32x32
**`favicon_48x48.png`** — Favicon 48x48
**`favicon_64x64.png`** — Favicon 64x64

## Periodic reboot (periodicity in days, every day)

Type: Enum

AUTOREBOOT

Automatic reboot interval in hours. When the configured interval has elapsed, Node V2 checks whether restarting is safe. Any energized relay blocks an automatic restart, including a Maintained (MA) switch that is ON. The reboot remains postponed for as long as a blocker is active, without a maximum deferral time. SWxSTARTUPACTION settings such as ON or LAST do not override this protection. Active directional commands, timers, locally controlled generator operation, SD formatting, file uploads, repository downloads and direct OTA updates also block automatic restarts. This protection does not prevent a manual reset; after a restart, relays are initially OFF and supported switches follow their configured startup action. Editor/firmware discrepancy: the editor stores 0 for Never, but the firmware domain accepts -1 instead. A stored 0 falls back to 168 hours. Other listed values are accepted by both.

**Example**
24

**Default**
168

**Allowed values / range**

**0** — Never
**24** — Every day
**48** — Every 2nd day
**120** — Every 5th day
**168** — Every week

## Log Debug Information

Type: Boolean

DEBUG

Enables additional diagnostic messages in the system log to help investigate faults. Leave disabled during normal operation unless troubleshooting is required. On an invalid value, the firmware falls back to off.

**Example**
`off`

**Default**
on

**Allowed values / range**

on / off

## Default Color Scheme

Type: Enum

LAYOUT

Selects the default visual theme of the Node V2 web interface. Individual app appearance settings may override this choice.

**Example**
`C`

**Default**
`C`

**Allowed values / range**

**A** — Modern
**B** — Night
**C** — Ocean (Default)
**D** — Carbon

## LOGO

Type: Enum

LOGO

Specifies the logo resource displayed by the Node interface when Show Logo is enabled. Use a supported resource name.

**Example**
`_default`

**Default**
`_default`

**Allowed values / range**

**`_default`** — Standard
**`blackwater.png`** — Blackwater
**`desalator.png`** — Desalator / Watermaker
**`divecompressor.png`** — Dive Compressor
**`gangway.png`** — Gangway
**`gangway-2.png`** — Gangway 2
**`furler.png`** — Furler
**`furler-2.png`** — Furler 2
**`generator.png`** — Generator
**`generatorfp.png`** — Generator - Fisher Panda
**`generatoroc.png`** — Generator - Cummins Onan
**`hydraulicvalve.png`** — Hydraulic Valve
**`motorizedpump.png`** — Pumps
**`tenderlift.png`** — Tenderlift
**`windlass.png`** — Windlass
**`windlassyacht.png`** — Windlass Yacht
**`switches.png`** — Switching classic
**`switcheselectronics.png`** — Switching Electronics
**`switchesplotter.png`** — Switching Plotter
**`switchesmodern.png`** — Switching modern
**`switchesoutdoor.png`** — Switching Outdoor
**`switchesspreader.png`** — Switching Spreader
**`smarteryachts.png`** — Smarter Yachts
**`SmarterYachts_1024x1024.png`** — Smarter Yachts 1024
**`customlogo1.png`** — Custom 1
**`customlogo2.png`** — Custom 2
**`customlogo3.png`** — Custom 3
**`customlogo4.png`** — Custom 4
**`splash.png`** — Splash
**`splashESP32.jpg`** — Splash ESP32
**`ico180.png`** — Icon 180
**`ico180_maskable.png`** — Icon 180 Maskable
**`ico192.png`** — Icon 192
**`ico192_maskable.png`** — Icon 192 Maskable
**`ico256.png`** — Icon 256
**`ico256_maskable.png`** — Icon 256 Maskable
**`ico320.png`** — Icon 320
**`ico512.png`** — Icon 512
**`ico512_maskable.png`** — Icon 512 Maskable
**`favicon.ico`** — Favicon
**`favicon_16x16.png`** — Favicon 16x16
**`favicon_32x32.png`** — Favicon 32x32
**`favicon_48x48.png`** — Favicon 48x48
**`favicon_64x64.png`** — Favicon 64x64

## Show Maintenance Log in Hamburger Menu

Type: Boolean

MAINTENANCEMODE

Displays the Maintenance Log in the Node V2 menu when enabled. Use the log to record inspections, oil checks, servicing, and other maintenance activities for this device.

**Example**
on

**Default**
on

**Allowed values / range**

on / off

## Node Name

Type: Text

NODENAME

Friendly name used to identify this Node V2 in the Smarter.Yachts App and on device lists. Choose a short, descriptive name such as Generator or Windlass.

**Example**
`Generator`

**Default**

**Allowed values / range**

0–48 characters (firmware length limit)

## Operation Mode (Device Type)

Type: Enum

OPMODE

Selects the function controlled by this Node V2: Gangway (GW), Windlass (WL), Furler (FU), Tenderlift (TL), Dive Compressor (DC), Hydraulic Valves (HV), Switching (SW), or Generator (GE). The selected mode determines which controls and mode-specific settings are available. On an invalid value, the firmware falls back to SW.

**Example**
`GE`

**Default**
`GW`

**Allowed values / range**

**DC** — Dive Compressor
**FU** — Furler
**GW** — Gangway
**GE** — Generator
**HV** — Hydraulic Valve / Pump
**SW** — Switching
**TL** — Tenderlift
**WL** — Windlass

## Lock Screen

Type: Enum

SCREENLOCK

Time in seconds before the Node V2 interface locks automatically after inactivity. Set to -1 to disable automatic locking.

**Example**
`-1`

**Default**
`-1`

**Allowed values / range**

**-1** — Never
**10** — 10 Seconds
**20** — 20 Seconds
**30** — 30 Seconds
**40** — 40 Seconds
**50** — 50 Seconds
**60** — 60 Seconds
**70** — 70 Seconds
**80** — 80 Seconds
**90** — 90 Seconds

## Show in App Menu

Type: Boolean

SHOWINAPPMENU

Controls whether this Node appears as a direct entry in the Smarter.Yachts App navigation menu. Disable it to hide the shortcut without disabling the Node itself.

**Example**
on

**Default**
on

**Allowed values / range**

on / off

## Show Logo

Type: Boolean

SHOWLOGO

Displays the configured logo in the Node interface when enabled. Disable to simplify the screen layout. On an invalid value, the firmware falls back to off.

**Example**
on

**Default**
on

**Allowed values / range**

on / off

## Show Slogan

Type: Boolean

SHOWSLOGAN

Displays the configured slogan text in the interface when enabled. The slogan itself is set in the Slogan field. On an invalid value, the firmware falls back to off.

**Example**
on

**Default**
on

**Allowed values / range**

on / off

### Slogan (If empty, System defaults apply)

Type: Text

SLOGAN

Defines optional text displayed as the Node slogan. When left empty, the firmware may use its built-in default.

**Example**
`Fair Winds`

**Default**

**Allowed values / range**

0–50 characters (firmware length limit)

### Configuration Schema Version

Type: Integer

CONFIGVERSION

Internal configuration schema marker, not the firmware version. Leave it at the value generated by the firmware. Missing or invalid values are treated as legacy schema 0.

**Example**
`1`

**Default**
`1`

**Allowed values / range**

0–65535 (whole numbers); not a Config Editor control

## Motion & Interlocks

Define how motorized equipment responds to commands and how opposing movements are protected. Review these settings carefully before operating gangways, lifts, furlers, or other moving equipment.

### Direction change delay (seconds)

Type: Integer

DIRECTIONCHANGEDELAY

Minimum waiting period before the motor may change to the opposite direction. This protects the drive and relays from immediate direction reversals. Verify the unit used by the firmware before changing this value.

**Example**
`1000`

**Default**
`1`

**Allowed values / range**

1–60 (whole numbers)

### Reverse Up / Down (R1 / R2)

Type: Boolean

`DIRECTIONREVERSE`

Swaps the UP and DOWN command assignment for supported motion controls. Check actual equipment movement after changing this setting.

**Example**
`off`

**Default**
`off`

**Allowed values / range**

on / off

### Reverse In / Out (R3 / R4)

Type: Boolean

`GWINOUTREVERSE`

Swaps the IN and OUT command assignment for Gangway control. Test both directions safely after making changes.

**Example**
`off`

**Default**
`off`

**Allowed values / range**

on / off

### Max command time while key is pressed (seconds)

Type: Integer

`MAXSEND`

Maximum duration for a continuously held movement command. Limits how long the output can remain active from a single sustained command. Verify the unit used by the firmware before changing this value. On an invalid value, the firmware falls back to 10.

**Example**
`20000`

**Default**
`20`

**Allowed values / range**

1–3600 (whole numbers)

# WiFi & Network

Configure the wireless connection and local network identity of Node V2. Choose whether the device joins an existing WiFi network or provides its own access point, and verify connectivity before deploying.

## Gateway

Type: Text

`GATEWAYIP`

Sets the network router/gateway address used when a static IP configuration is selected. It must be reachable on the configured subnet.

**Example**
`192.168.1.1`

**Default**
`192.168.4.1`

**Allowed values / range**

IPv4 dotted decimal: four octets, each 0–255; required by the editor for static addressing

## Hostname

Type: Text

`HOSTNAME`

Defines the network hostname used to identify the Node, typically reachable as hostname.local on networks supporting mDNS. Enter the name without the .local suffix. The editor permits an empty value; the firmware logs a minimum-length warning but retains it. Firmware truncates hostnames beyond 63 bytes.

**Example**
node

**Default**
sy

**Allowed values / range**

Hostname labels: 1–63 letters, digits, or hyphens; no leading or trailing label hyphen or spaces. Editor maximum: 253 characters; firmware maximum: 63 bytes.

## IP Address

Type: Integer

`IPADDRESS`

Specifies the fixed IP address assigned to Node V2 when IP Mode is set to static. Choose an unused address on the yacht network.

**Example**
`192.168.1.20`

**Default**
`192.168.4.1`

**Allowed values / range**

IPv4 dotted decimal: four octets, each 0–255; required by the editor for static addressing

## IP Mode

Type: Enum

IPMODE

Controls whether the Node receives its IP settings automatically (dynamic/DHCP) or uses the manually configured static address, gateway, and subnet. Dynamic is unavailable in Access Point mode; the editor selects Static.

**Example**
D

**Default**
D

**Allowed values / range**

**D** — Dynamic

**S** — Static

## Password

Type: Text

PASSWORD

Password for the Wi-Fi network selected in SSID. It is used for station-mode connection and should be kept confidential.

**Example**
********

**Default**
smarter1

**Allowed values / range**

Empty for an open network (editor warning), or 8–63 printable ASCII characters. Firmware warns on fewer than 8 characters but retains the value.

## SSID

Type: Text

SSID

Name of the Wi-Fi network to which Node V2 connects when operating as a station (STA). Enter the network name exactly, including capitalization.

**Example**
YACHT-WIFI

**Default**
SY

**Allowed values / range**

1–32 UTF-8 bytes; no control characters

### Subnet

Type: Text

SUBNETMASK

Sets the subnet mask for a static network configuration. It must match the addressing scheme of the connected Wi-Fi network.

**Example**
`255.255.255.0`

**Default**
`255.255.255.0`

**Allowed values / range**

IPv4 subnet mask with contiguous leading 1 bits followed by 0 bits; all-zero mask rejected by the editor

### WiFi Mode

Type: Enum

WIFIMODE

Selects the Wi-Fi operating mode. STA connects Node V2 to an existing Wi-Fi network; AP lets Node V2 provide its own access point for direct setup and access. In Access Point mode, the Config Editor disables Dynamic IP mode and selects Static.

**Example**
STA

**Default**
AP

**Allowed values / range**

**AP** — Access Point

**STA** — Station (Client)

## Remote & Internet

Manage internet-dependent features and remote connectivity. These settings affect how the Node communicates beyond the local network and should be configured according to the vessel's connectivity and security requirements.

### Internet Access

Type: Boolean

INTERNETENABLED

Allows the Node to use Internet-dependent functions when connectivity is available. Certain explicitly requested operations may establish temporary access independently.

**Example**
`off`

**Default**
`off`

**Allowed values / range**

on / off

## Remote Management

Type: Boolean

REMOTE

Enables communication with the configured remote service when supported and permitted. Requires suitable network connectivity and service configuration. The editor requires Internet Access to be enabled when Remote Management is enabled.

**Example**
`off`

**Default**
`off`

**Allowed values / range**

on / off

## Remote Poll Interval

Type: Integer

REMOTEPOLLINT

Defines how frequently the Node checks the remote service, in seconds. Shorter intervals generate more network traffic.

**Example**
`300`

**Default**
`300`

**Allowed values / range**

120–3600 seconds (whole numbers)

## Repository Server URL

Type: Text

REPOURL

Specifies the server URL used to retrieve firmware or other published resources. Change only when using an approved alternative repository.

**Example**
`https://repo.smarter.yachts`

**Default**
`https://prod.smarter.yachts`

**Allowed values / range**

HTTP or HTTPS host-only URL: http://hostname or https://hostname (IPv4 also accepted). No path or trailing slash, port, query string, fragment, or credentials. The Config Editor requires dotted hostnames with 1–63 letters, digits, or hyphens per label, no leading or trailing label hyphen, and a maximum hostname length of 253 characters. Use a lowercase scheme.

### Remote Server URL

Type: Text

REMOTEURL

Remote management endpoint. The editor checks the URL when Remote Management is enabled. Invalid format disables REMOTE when firmware loads the configuration; syntax validation does not test reachability.

**Example**
`https://prod.smarter.yachts`

**Default**
`https://prod.smarter.yachts`

**Allowed values / range**

HTTP or HTTPS host-only URL: http://hostname or https://hostname (IPv4 also accepted). No path or trailing slash, port, query string, fragment, or credentials. The editor requires a dotted hostname, labels of 1–63 letters, digits or hyphens, no leading or trailing label hyphen, and a maximum hostname length of 253 characters. Use a lowercase scheme.

## Authentication & Access

Control access to the Node configuration and protected functions. Set appropriate credentials and access rules to prevent unauthorized changes while keeping legitimate maintenance access available.

### Login Expiry (days)

Type: Integer

ADMIN_AUTH_EXPIRY_DAYS

Number of days for which a successful Admin authentication remains valid before the user must authenticate again. On an invalid value, the firmware falls back to 10.

**Example**
`30`

**Default**
`1`

**Allowed values / range**

1–360 (whole numbers)

### Auth Token

Type: Text

ADMIN_AUTH_TOKEN

Authentication token generated for the Admin role. Treat it as a secret credential; it is not a descriptive label or a value to share publicly.

**Example**
`generated`

**Default**
`oP3kvjH4hf`

**Allowed values / range**

6–32 characters (firmware length limit)

## Passcode

Type: Text

`ADMIN_PASSCODE`

Passcode used to authenticate users with the Admin role. Set a suitable secret and avoid reusing credentials between roles.

**Example**
********

**Default**
`dhZgHjX3kd`

**Allowed values / range**

4–16 characters (firmware length limit)

## Admin requires authentication

Type: Boolean

`ADMIN_REQUIRES_AUTH`

When enabled, users must authenticate before accessing functions protected by the Admin role. Disabling it removes that role-specific login requirement. The editor prevents disabling Admin authentication while Guest or Crew authentication is enabled.

**Example**
on

**Default**
`off`

**Allowed values / range**

on / off

## Login Expiry (days)

Type: Integer

`CREW_AUTH_EXPIRY_DAYS`

Number of days for which a successful Crew authentication remains valid before the user must authenticate again. On an invalid value, the firmware falls back to 10.

**Example**
`30`

**Default**
`30`

**Allowed values / range**

1–360 (whole numbers)

## Auth Token

Type: Text

`CREW_AUTH_TOKEN`

Authentication token generated for the Crew role. Treat it as a secret credential; it is not a descriptive label or a value to share publicly.

**Example**
`generated`

**Default**
`U3HHgrT6kc`

**Allowed values / range**

6–32 characters (firmware length limit)

## Passcode

Type: Text

`CREW_PASSCODE`

Passcode used to authenticate users with the Crew role. Set a suitable secret and avoid reusing credentials between roles.

**Example**
`********`

**Default**
`pH16ZZdnsw`

**Allowed values / range**

4–16 characters (firmware length limit)

## Crew requires authentication

Type: Boolean

`CREW_REQUIRES_AUTH`

When enabled, users must authenticate before accessing functions protected by the Crew role. Disabling it removes that role-specific login requirement. The editor requires Admin authentication to be enabled before Crew authentication can be enabled.

**Example**
`on`

**Default**
`off`

**Allowed values / range**

on / off

### Login Expiry (days)

Type: Integer

GUEST_AUTH_EXPIRY_DAYS

Number of days for which a successful Guest authentication remains valid before the user must authenticate again. On an invalid value, the firmware falls back to 10.

**Example**
7

**Default**
7

**Allowed values / range**

1–360 (whole numbers)

### Auth Token

Type: Text

GUEST_AUTH_TOKEN

Authentication token generated for the Guest role. Treat it as a secret credential; it is not a descriptive label or a value to share publicly.

**Example**
generated

**Default**
oPKldj3d0d

**Allowed values / range**

6–32 characters (firmware length limit)

### Passcode

Type: Text

GUEST_PASSCODE

Passcode used to authenticate users with the Guest role. Set a suitable secret and avoid reusing credentials between roles.

**Example**
********

**Default**
zeGwGr72Jb

**Allowed values / range**

4–16 characters (firmware length limit)

### Guest requires authentication

Type: Boolean

`GUEST_REQUIRES_AUTH`

When enabled, users must authenticate before accessing functions protected by the Guest role. Disabling it removes that role-specific login requirement. The editor requires both Crew and Admin authentication to be enabled before Guest authentication can be enabled.

**Example**
on

**Default**
`off`

**Allowed values / range**

on / off

### Trust token (Multi / Remote access)

Type: Text

`TRUSTTOKEN`

Shared secret used to authenticate trusted connections between Nodes or API clients. Keep it private and configure matching credentials on connected devices.

**Example**
`generated`

**Default**
`1fKef2IoP1`

**Allowed values / range**

5–32 characters: A–Z, a–z, 0–9, - _ . ~ ! $ % +

## System Health

Configure system monitoring, diagnostics, and reliability-related behavior. Use these settings to support stable operation and troubleshooting without interrupting active equipment.

### Internet Health Check Interval (seconds, 120–1200, 600)

Type: Integer

`HEALTHCHECKINT`

Time between general system health checks, in seconds. The health monitor uses these checks to detect conditions requiring recovery.

**Example**
`600`

**Default**
`600`

**Allowed values / range**

120–1200 (whole numbers)

### Network Health Check Interval (seconds, 60–600, 60)

Type: Integer

HEALTHCHECKWIFIINT

Time between checks of Wi-Fi and web-server availability, in seconds. Used to identify network-service failures.

**Example**
60

**Default**
60

**Allowed values / range**

60–600 (whole numbers)

### Web Server failures before restart (2–10, 3)

Type: Integer

HEALTHWEBSERVERFAILURES

Number of consecutive failed web-server checks tolerated before recovery or restart is initiated. Larger values allow more transient failures.

**Example**
3

**Default**
3

**Allowed values / range**

2–10 (whole numbers)

### Recover from Fallback WiFi after (minutes, 15–300, 30)

Type: Integer

HEALTHWIFIFROMFALLBACK

Delay in minutes before attempting to recover the preferred Wi-Fi connection after entering fallback access-point mode.

**Example**
30

**Default**
30

**Allowed values / range**

15–300 (whole numbers)

### Switch to Fallback WiFi after (minutes, 5–300, 10)

Type: Integer

HEALTHWIFITOFALLBACK

Delay in minutes before switching to fallback Wi-Fi operation when the preferred network cannot be reached.

**Example**
10

**Default**
10

**Allowed values / range**

5–300 (whole numbers)

## Multi Device

Connect and identify multiple Smarter.Yachts Node V2 devices within one installation. Configure host and device labels so each Node can be distinguished and addressed correctly in a coordinated setup.

### Host Label

Type: Text

HOSTTXT

Friendly name displayed for the local or primary Node in a multi-device setup. Choose a label that distinguishes it from connected slave devices.

**Example**
Gangway

**Default**
Gangway

**Allowed values / range**

1–16 characters (firmware length limit)

### Enable Multi

Type: Boolean

MULTI

Enables Multi Device mode, allowing one Node interface to provide access to additional configured Nodes. Configure each slave address and trust token separately.

**Example**
off

**Default**
off

**Allowed values / range**

on / off

## Slave 1 enabled

Type: Boolean

SLAVE1

Enables slave Node 1 in Multi Device mode. Its address and trust token must also be configured for communication.

**Example**
on

**Default**
off

**Allowed values / range**

on / off

## Trust-Token

Type: Text

SLAVE1TTO

Trust token used by the primary Node to authenticate with slave Node 1. It must match the token configured on that device.

**Example**
generated

**Default**
1fKef2IoP1

**Allowed values / range**

5–32 characters: A–Z, a–z, 0–9, - _ . ~ ! $ % +; required only when Multi Device Mode and this slave are enabled

## Label

Type: Text

SLAVE1TXT

Friendly label for slave Node 1 shown in multi-device navigation. Use the equipment name to make the destination easy to recognize.

**Example**
Windlass

**Default**
Diving

**Allowed values / range**

1–16 characters (firmware length limit)

## URL

Type: Text

SLAVE1URL

HTTP URL used to contact slave Node 1. Format validation applies in the Config Editor when Multi Device Mode and this slave are enabled. An invalid URL disables this slave when the firmware loads the configuration. The destination must also be reachable from the primary Node; URL-format validation does not test connectivity.

**Example**
`http://windlass.local`

**Default**
`http://192.168.4.2`

**Allowed values / range**

HTTP host-only URL: http://hostname or http://IPv4. HTTPS is not accepted. No path or trailing slash, port, query string, fragment, or credentials. Hostnames use letters, digits, hyphens, and dots; firmware rejects consecutive dots and a leading or trailing dot or hyphen. Use a lowercase http:// scheme.

## Slave 2 enabled

Type: Boolean

SLAVE2

Enables slave Node 2 in Multi Device mode. Its address and trust token must also be configured for communication.

**Example**
on

**Default**
`off`

**Allowed values / range**

on / off

## Trust-Token

Type: Text

SLAVE2TTO

Trust token used by the primary Node to authenticate with slave Node 2. It must match the token configured on that device.

**Example**
`generated`

**Default**
`2fKef2IoP2`

**Allowed values / range**

5–32 characters: A–Z, a–z, 0–9, - _ . ~ ! $ % +; required only when Multi Device Mode and this slave are enabled

## Label

Type: Text

SLAVE2TXT

Friendly label for slave Node 2 shown in multi-device navigation. Use the equipment name to make the destination easy to recognize.

**Example**
`Windlass`

**Default**
`Tenderlift`

**Allowed values / range**

1–16 characters (firmware length limit)

## URL

Type: Text

SLAVE2URL

HTTP URL used to contact slave Node 2. Format validation applies in the Config Editor when Multi Device Mode and this slave are enabled. An invalid URL disables this slave when the firmware loads the configuration. The destination must also be reachable from the primary Node; URL-format validation does not test connectivity.

**Example**
`http://windlass.local`

**Default**
`http://192.168.4.3`

**Allowed values / range**

HTTP host-only URL: http://hostname or http://IPv4. HTTPS is not accepted. No path or trailing slash, port, query string, fragment, or credentials. Hostnames use letters, digits, hyphens, and dots; firmware rejects consecutive dots and a leading or trailing dot or hyphen. Use a lowercase http:// scheme.

## Slave 3 enabled

Type: Boolean

SLAVE3

Enables slave Node 3 in Multi Device mode. Its address and trust token must also be configured for communication.

**Example**
on

**Default**
`off`

**Allowed values / range**

on / off

## Trust-Token

Type: Text

SLAVE3TTO

Trust token used by the primary Node to authenticate with slave Node 3. It must match the token configured on that device.

**Example**
`generated`

**Default**
`3fKef2IoP3`

**Allowed values / range**

5–32 characters: A–Z, a–z, 0–9, - _ . ~ ! $ % +; required only when Multi Device Mode and this slave are enabled

## Label

Type: Text

SLAVE3TXT

Friendly label for slave Node 3 shown in multi-device navigation. Use the equipment name to make the destination easy to recognize.

**Example**
`Windlass`

**Default**
`Windlass`

**Allowed values / range**

1–16 characters (firmware length limit)

## URL

Type: Text

SLAVE3URL

HTTP URL used to contact slave Node 3. Format validation applies in the Config Editor when Multi Device Mode and this slave are enabled. An invalid URL disables this slave when the firmware loads the configuration. The destination must also be reachable from the primary Node; URL-format validation does not test connectivity.

**Example**
`http://windlass.local`

**Default**
`http://192.168.4.4`

**Allowed values / range**

HTTP host-only URL: http://hostname or http://IPv4. HTTPS is not accepted. No path or trailing slash, port, query string, fragment, or credentials. Hostnames use letters, digits, hyphens, and dots; firmware rejects consecutive dots and a leading or trailing dot or hyphen. Use a lowercase http:// scheme.

## Slave 4 enabled

Type: Boolean

SLAVE4

Enables slave Node 4 in Multi Device mode. Its address and trust token must also be configured for communication.

**Example**
on

**Default**
off

**Allowed values / range**

on / off

## Trust-Token

Type: Text

SLAVE4TTO

Trust token used by the primary Node to authenticate with slave Node 4. It must match the token configured on that device.

**Example**
generated

**Default**
4fKef2IoP4

**Allowed values / range**

5–32 characters: A–Z, a–z, 0–9, - _ . ~ ! $ % +; required only when Multi Device Mode and this slave are enabled

## Label

Type: Text

SLAVE4TXT

Friendly label for slave Node 4 shown in multi-device navigation. Use the equipment name to make the destination easy to recognize.

**Example**
Windlass

**Default**
Switches

**Allowed values / range**

1–16 characters (firmware length limit)

### URL

Type: Text

SLAVE4URL

HTTP URL used to contact slave Node 4. Format validation applies in the Config Editor when Multi Device Mode and this slave are enabled. An invalid URL disables this slave when the firmware loads the configuration. The destination must also be reachable from the primary Node; URL-format validation does not test connectivity.

**Example**
`http://windlass.local`

**Default**
`http://192.168.4.5`

**Allowed values / range**

HTTP host-only URL: http://hostname or http://IPv4. HTTPS is not accepted. No path or trailing slash, port, query string, fragment, or credentials. Hostnames use letters, digits, hyphens, and dots; firmware rejects consecutive dots and a leading or trailing dot or hyphen. Use a lowercase http:// scheme.

## Electrical & Temperature Data

Select sources for electrical measurements and temperature readings, including supported external systems. Configure connection details and data selection so displayed values correspond to the installed equipment.

### Electrical Data Source

Type: Enum

ELECTRICALDATASOURCE

Selects where battery and electrical readings originate, such as Victron GX or Smarter.Yachts Dash. Choose None when no compatible source is connected.

**Example**
`VICTRON`

**Default**
`NONE`

**Allowed values / range**

**`NONE`** — None

**`VICTRON`** — Victron GX

**`DASH`** — Smarter.Yachts Dash (not yet available)

## Refresh Cycle - Background

Type: Enum

VICTRONBACKGROUNDREFRESH

Interval in seconds between background updates of Victron electrical measurements. Higher values reduce polling traffic. The editor offers the listed choices; manually edited configuration files accept any whole-number interval in the firmware range: 5–120 seconds.

**Example**
5

**Default**
5

**Allowed values / range**

**5** — 5 seconds
**10** — 10 seconds
**15** — 15 seconds
**30** — 30 seconds
**60** — 1 minute
**120** — 2 minutes

## Victron GX IP address / hostname

Type: Text

VICTRONGXHOST

IP address or hostname of the Victron GX device providing electrical data over Modbus TCP. Ensure the device is reachable on the same network.

**Example**
`192.168.1.50`

**Default**
`venus.local`

**Allowed values / range**

1–64 characters (firmware length limit)

## Refresh Cycle - Popup Open

Type: Enum

VICTRONPOPUPREFRESH

Interval in seconds between electrical-data updates while the detail popup is open. Short intervals provide more responsive readings. The editor offers the listed choices; manually edited configuration files accept any whole-number interval in the firmware range: 2–30 seconds.

**Example**
2

**Default**
2

**Allowed values / range**

**2** — 2 seconds
**5** — 5 seconds
**10** — 10 seconds
**15** — 15 seconds
**30** — 30 seconds

## Temperature Modbus Unit ID

Type: Integer

VICTRONTEMPUNITID

Modbus TCP Unit ID identifying the Victron temperature service. Use the value discovered or assigned for the corresponding service.

**Example**
24

**Default**
0

**Allowed values / range**

0–247 (whole numbers); 0 disables this source

## Manual

Type: Enum

VICTRONTEMPUNITMODE

Choose Manual to enter a Modbus Unit ID, or Scan to discover temperature sensors on the Victron GX and select one. Editor-only selection; this is not stored in config.txt. Scan selects a detected sensor and writes its VICTRONTEMPUNITID.

**Example**
MANUAL

**Default**
MANUAL (editor only)

**Allowed values / range**

**MANUAL** — Manual

**SCAN** — Scan

## VE.Bus Modbus Unit ID Electric

Type: Integer

VICTRONVEBUSUNITID

Modbus TCP Unit ID for the VE.Bus service used to read inverter/charger information from the Victron GX.

**Example**
227

**Default**
227

**Allowed values / range**

1–247 (whole numbers)

### Generator temperature source

Type: Enum

GENTEMPSOURCE

VICTRON reads the sensor through Victron Cerbo GX over Modbus TCP. NONE disables the temperature source. Direct Bluetooth sensor reception is not supported.

**Example**
VICTRON

**Default**
VICTRON

**Allowed values / range**

**NONE** — None

**VICTRON** — Victron Cerbo GX

## Tank Data

Configure the identification and presentation of tank measurements. Assign the appropriate tank sources and labels so fresh water, black water, and other configured tank readings can be recognized correctly.

### Label

Type: Text

TANK10TXT

Display name for tank 10, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

**Example**
Fresh Water

**Default**
Tank 10

**Allowed values / range**

1–24 characters (firmware length limit)

### Modbus Unit ID

Type: Integer

TANK10UNITID

Victron Modbus TCP Unit ID for tank 10. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

**Example**
20

**Default**
0

**Allowed values / range**

0–247 (whole numbers); 0 disables this source

## Label

Type: Text

TANK11TXT

Display name for tank 11, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

**Example**
`Fresh Water`

**Default**
`Tank 11`

**Allowed values / range**

1–24 characters (firmware length limit)

## Modbus Unit ID

Type: Integer

TANK11UNITID

Victron Modbus TCP Unit ID for tank 11. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

**Example**
`20`

**Default**
`0`

**Allowed values / range**

0–247 (whole numbers); 0 disables this source

## Label

Type: Text

TANK12TXT

Display name for tank 12, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

**Example**
`Fresh Water`

**Default**
`Tank 12`

**Allowed values / range**

1–24 characters (firmware length limit)

## Modbus Unit ID

Type: Integer

`TANK12UNITID`

Victron Modbus TCP Unit ID for tank 12. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

**Example**
`20`

**Default**
`0`

**Allowed values / range**

0–247 (whole numbers); 0 disables this source

## Label

Type: Text

`TANK13TXT`

Display name for tank 13, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

**Example**
`Fresh Water`

**Default**
`Tank 13`

**Allowed values / range**

1–24 characters (firmware length limit)

## Modbus Unit ID

Type: Integer

`TANK13UNITID`

Victron Modbus TCP Unit ID for tank 13. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

**Example**
`20`

**Default**
`0`

**Allowed values / range**

0–247 (whole numbers); 0 disables this source

## Label

Type: Text

`TANK14TXT`

Display name for tank 14, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

**Example**
`Fresh Water`

**Default**
`Tank 14`

**Allowed values / range**

1–24 characters (firmware length limit)

## Modbus Unit ID

Type: Integer

`TANK14UNITID`

Victron Modbus TCP Unit ID for tank 14. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

**Example**
`20`

**Default**
`0`

**Allowed values / range**

0–247 (whole numbers); 0 disables this source

## Label

Type: Text

`TANK15TXT`

Display name for tank 15, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

**Example**
`Fresh Water`

**Default**
`Tank 15`

**Allowed values / range**

1–24 characters (firmware length limit)

## Modbus Unit ID

Type: Integer

`TANK15UNITID`

Victron Modbus TCP Unit ID for tank 15. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

**Example**
`20`

**Default**
`0`

**Allowed values / range**

0–247 (whole numbers); 0 disables this source

## Label

Type: Text

`TANK16TXT`

Display name for tank 16, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

**Example**
`Fresh Water`

**Default**
`Tank 16`

**Allowed values / range**

1–24 characters (firmware length limit)

## Modbus Unit ID

Type: Integer

`TANK16UNITID`

Victron Modbus TCP Unit ID for tank 16. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

**Example**
`20`

**Default**
`0`

**Allowed values / range**

0–247 (whole numbers); 0 disables this source

## Label

Type: Text

`TANK1TXT`

Display name for tank 1, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

**Example**
`Fresh Water`

**Default**
`Tank 1`

**Allowed values / range**

1–24 characters (firmware length limit)

## Modbus Unit ID

Type: Integer

`TANK1UNITID`

Victron Modbus TCP Unit ID for tank 1. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

**Example**
`20`

**Default**
`0`

**Allowed values / range**

0–247 (whole numbers); 0 disables this source

## Label

Type: Text

`TANK2TXT`

Display name for tank 2, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

**Example**
`Fresh Water`

**Default**
`Tank 2`

**Allowed values / range**

1–24 characters (firmware length limit)

## Modbus Unit ID

Type: Integer

`TANK2UNITID`

Victron Modbus TCP Unit ID for tank 2. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

**Example**
`20`

**Default**
`0`

**Allowed values / range**

0–247 (whole numbers); 0 disables this source

## Label

Type: Text

`TANK3TXT`

Display name for tank 3, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

**Example**
`Fresh Water`

**Default**
`Tank 3`

**Allowed values / range**

1–24 characters (firmware length limit)

## Modbus Unit ID

Type: Integer

`TANK3UNITID`

Victron Modbus TCP Unit ID for tank 3. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

**Example**
`20`

**Default**
`0`

**Allowed values / range**

0–247 (whole numbers); 0 disables this source

### Label

Type: Text

`TANK4TXT`

Display name for tank 4, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

**Example**
`Fresh Water`

**Default**
`Tank 4`

**Allowed values / range**

1–24 characters (firmware length limit)

### Modbus Unit ID

Type: Integer

`TANK4UNITID`

Victron Modbus TCP Unit ID for tank 4. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

**Example**
`20`

**Default**
`0`

**Allowed values / range**

0–247 (whole numbers); 0 disables this source

### Label

Type: Text

`TANK5TXT`

Display name for tank 5, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

**Example**
`Fresh Water`

**Default**
`Tank 5`

**Allowed values / range**

1–24 characters (firmware length limit)

## Modbus Unit ID

Type: Integer

`TANK5UNITID`

Victron Modbus TCP Unit ID for tank 5. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

**Example**
`20`

**Default**
`0`

**Allowed values / range**

0–247 (whole numbers); 0 disables this source

## Label

Type: Text

`TANK6TXT`

Display name for tank 6, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

**Example**
`Fresh Water`

**Default**
`Tank 6`

**Allowed values / range**

1–24 characters (firmware length limit)

## Modbus Unit ID

Type: Integer

`TANK6UNITID`

Victron Modbus TCP Unit ID for tank 6. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

**Example**
`20`

**Default**
`0`

**Allowed values / range**

0–247 (whole numbers); 0 disables this source

## Label

Type: Text

`TANK7TXT`

Display name for tank 7, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

**Example**
`Fresh Water`

**Default**
`Tank 7`

**Allowed values / range**

1–24 characters (firmware length limit)

## Modbus Unit ID

Type: Integer

`TANK7UNITID`

Victron Modbus TCP Unit ID for tank 7. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

**Example**
`20`

**Default**
`0`

**Allowed values / range**

0–247 (whole numbers); 0 disables this source

## Label

Type: Text

`TANK8TXT`

Display name for tank 8, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

**Example**
`Fresh Water`

**Default**
`Tank 8`

**Allowed values / range**

1–24 characters (firmware length limit)

## Modbus Unit ID

Type: Integer

`TANK8UNITID`

Victron Modbus TCP Unit ID for tank 8. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

**Example**
`20`

**Default**
`0`

**Allowed values / range**

0–247 (whole numbers); 0 disables this source

## Label

Type: Text

`TANK9TXT`

Display name for tank 9, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

**Example**
`Fresh Water`

**Default**
`Tank 9`

**Allowed values / range**

1–24 characters (firmware length limit)

## Modbus Unit ID

Type: Integer

`TANK9UNITID`

Victron Modbus TCP Unit ID for tank 9. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

**Example**
`20`

**Default**
`0`

**Allowed values / range**

0–247 (whole numbers); 0 disables this source

## Refresh Cycle - Background (seconds)

Type: Integer

`TANKBACKGROUNDREFRESH`

Time in seconds between background updates of configured tank levels. Increasing the interval reduces network polling.

**Example**
5

**Default**
5

**Allowed values / range**

5–120 (whole numbers)

## Tank Data Source

Type: Enum

`TANKDATASOURCE`

Selects the source supplying tank-level data. Choose the compatible provider configured on the yacht.

**Example**
`VICTRON`

**Default**
`NONE`

**Allowed values / range**

**`NONE`** — None

**`VICTRON`** — Victron GX

**`DASH`** — Smarter.Yachts Dash (not yet available)

## Show tanks on main screen

Type: Boolean

`TANKSHOWONMAIN`

When enabled, configured tank levels appear directly on the Node main screen. Disable to keep them in the detailed views only.

**Example**
`off`

**Default**
on

**Allowed values / range**

on / off

### Victron GX IP address / hostname

Type: Text

`TANKVICTRONGXHOST`

Hostname or IP address of the Victron GX providing tank-level data. This can differ from the GX used for electrical data.

**Example**
`192.168.1.50`

**Default**
`venus.local`

**Allowed values / range**

1–64 characters (firmware length limit)

## Windlass / Furler (WL / FU)

Configure anchor windlass controls, movement behavior, and optional chain counting. Verify direction inputs, sensor settings, and movement protection before operating the windlass.

### Enable Chain Counter

Type: Boolean

`WLCHAINCOUNTER`

Enable the Windlass chain counter. When off, counting and its UI controls are hidden.

**Example**
`off`

**Default**
`off`

**Allowed values / range**

on / off

### Chain per pulse (cm)

Type: Decimal

`WLCHAINPERPULSE`

Chain travel per IN8 sensor pulse, in centimetres. Used to calculate deployed chain length.

**Example**
`30`

**Default**
`25.0`

**Allowed values / range**

1–2000 cm per pulse; decimals accepted (editor step 0.01)

## Display unit

Type: Enum

`WLCHAINUNIT`

Display unit for the chain counter: metres or feet.

**Example**
`M`

**Default**
`M`

**Allowed values / range**

**`M`** — Meters

**`FT`** — Feet

## Up/Down Indicator

Type: Enum

`WLCHAINDIRECTION`

Chain counter direction source: SELF uses Node V2 relays; IN6DOWN uses IN6 for Down and IN7 for Up; IN6UP reverses the input assignments. IN8 measures chain pulses. Coast-down pulses always count as Down.

**Example**
SELF

**Default**
SELF

**Allowed values / range**

**`SELF`** — Self (Node V2 relays)

**`IN6DOWN`** — IN6 Down / IN7 Up

**`IN6UP`** — IN6 Up / IN7 Down

## Counter Mode

Type: Enum

`WLCHAINMODE`

Chain measurement method: SENSOR counts IN8 pulses (default); TIME estimates travel from active UP/DOWN signals.

**Example**
SENSOR

**Default**
SENSOR

**Allowed values / range**

**`SENSOR`** — Sensor (IN8)

**`TIME`** — Time Based (estimated)

## DOWN distance in 15 seconds (m)

Type: Decimal

WLCHAINTIMEDOWN

Measured metres deployed in 15 seconds of DOWN motor operation in Time Based mode.

**Example**
0.0

**Default**
0.0

**Allowed values / range**

0–250 m travelled in 15 seconds; decimals accepted (editor step 0.01)

## UP distance in 15 seconds (m)

Type: Decimal

WLCHAINTIMEUP

Measured metres retrieved in 15 seconds of UP motor operation in Time Based mode.

**Example**
0.0

**Default**
0.0

**Allowed values / range**

0–250 m travelled in 15 seconds; decimals accepted (editor step 0.01)

## Total chain length (m)

Type: Integer

WLCHAINMAXLENGTH

Total physical chain length in metres (1–250; default 80). Defines the progress-bar scale and 75%/90% warning thresholds.

**Example**
80

**Default**
80

**Allowed values / range**

1–250 m (whole numbers)

## Has Light

Type: Boolean

WLHASLIGHT

Enables the optional lighting control associated with Windlass or Furler operation, if the output is wired for this purpose.

**Example**
off

**Default**
off

**Allowed values / range**

on / off

# Tenderlift (TL)

Configure tenderlift movement and control behavior. Check travel directions, timing, and interlocks against the installed lift before enabling normal operation.

### Has Light

Type: Boolean

`TLHASLIGHT`

Enables the optional Tenderlift lighting control. Only enable when the relevant output and light are installed.

**Example**
`off`

**Default**
`off`

**Allowed values / range**

on / off

# Dive Compressor (DC)

Configure remote control and operating parameters for the dive compressor. Ensure the electrical installation, operating feedback, and maintenance requirements—including breathing-air filter service—are handled appropriately.

### Breathing air filter reminder (hours, 5-200)

Type: Integer

`DCBREATHINGFILTERINTERVAL`

Operating-hour interval between breathing-air filter service reminders on the dive compressor. Follow the compressor and filter manufacturer's requirements for safe breathing air. When DCFILTERENABLED is on, the temperature-weighted P21 monitor replaces this simple hour-based breathing-filter reminder; oil and service reminders remain independent.

**Example**
`100`

**Default**
`20`

**Allowed values / range**

5–200 (whole numbers)

### Provides feedback if running (IN8)

Type: Boolean

DCHASFEEDBACK

Enables use of the Dive Compressor running-feedback input so the Node can distinguish requested operation from actual running state.

**Example**
on

**Default**
off

**Allowed values / range**

on / off

### Oil check reminder (hours, 5-100)

Type: Integer

DCOILCHECKINTERVAL

Operating-hour interval for Dive Compressor oil checks. Set according to the compressor manufacturer's maintenance schedule.

**Example**
25

**Default**
20

**Allowed values / range**

5–100 (whole numbers)

### Dive Compressor service reminder (hours, 20-1000)

Type: Integer

DCSERVICEINTERVAL

Operating-hour interval for scheduled Dive Compressor servicing. The maintenance log uses this value to indicate when service is due.

**Example**
200

**Default**
200

**Allowed values / range**

20–1000 (whole numbers)

## Environment monitoring

Type: Boolean

DCENVENABLED

Enable optional temperature and humidity display in Dive Compressor mode. No automatic compressor control.

**Example**
off

**Default**
off

**Allowed values / range**

on / off

## Show temperature

Type: Boolean

DCENVTEMPERATURE

Display valid temperature from the selected environment source. Readings expire after 60 seconds; unavailable readings are not zero.

**Example**
on

**Default**
on

**Allowed values / range**

on / off

## Show humidity

Type: Boolean

DCENVHUMIDITY

Display relative humidity when provided by the selected source. Temperature and humidity validity are independent.

**Example**
on

**Default**
on

**Allowed values / range**

on / off

## Environment source

Type: Enum

DCENVSOURCE

VICTRON reads the sensor through Victron Cerbo GX over Modbus TCP. NONE disables the temperature source. Direct Bluetooth sensor reception is not supported.

**Example**
`VICTRON`

**Default**
`VICTRON`

**Allowed values / range**

**`NONE`** — None

**`VICTRON`** — Victron Cerbo GX

## Cerbo GX host

Type: Text

DCVICTRONHOST

Cerbo GX IPv4 address or hostname with Modbus TCP enabled. Temperature register 3304 and humidity register 3306; configure the temperature-service Unit ID.

**Example**
`venus.local`

**Default**
`venus.local`

**Allowed values / range**

1–64 letters, digits, dots or hyphens

## Cerbo GX sensor Unit ID

Type: Integer

DCVICTRONUNITID

Modbus temperature-service Unit ID. Zero leaves the sensor unconfigured; select the correct service ID in Cerbo GX.

**Example**
`0`

**Default**
`0`

**Allowed values / range**

1–247; 0 = unconfigured

## BAUER JUNIOR II P21 filter monitoring

Type: Boolean

DCFILTERENABLED

Enable temperature-weighted P21 cartridge consumption tracking. Starts unknown until an actual replacement is confirmed. Uses IN8 running feedback or manually recorded intervals; never switches relays or certifies breathing-air quality.

**Example**
`off`

**Default**
`off`

**Allowed values / range**

on / off

## Compressor delivery (l/min)

Type: Decimal

DCFILTERQ

Delivery used for future filter-consumption intervals. Earlier intervals retain their original weighting.

**Example**
`100`

**Default**
`100`

**Allowed values / range**

Greater than 0, maximum 1000 l/min

## P21 cartridge

Type: Enum

DCFILTERCARTRIDGE

Select the installed cartridge: 057679 uses 68 g desiccant; 059183 uses 58 g. A changed cartridge setting requires a confirmed physical replacement before tracking can be trusted.

**Example**
`057679`

**Default**
`057679`

**Allowed values / range**

**`057679`** — 057679 (68 g)

**`059183`** — 059183 (CO, 58 g)

## Filling pressure (bar)

Type: Enum

DCFILTERPRESSURE

Pressure used to calculate capacity for future intervals. Select 200 or 300 bar.

**Example**
`200`

**Default**
`200`

**Allowed values / range**

**`200`** — 200 bar

**`300`** — 300 bar

## Filter temperature source

Type: Enum

DCFILTERSOURCE

MANUAL uses DCFILTERTEMPERATURE. SENSOR uses the existing Dive Compressor environment temperature; enable DCENVENABLED and configure its source. Missing sensor data is unknown, with no silent manual fallback.

**Example**
MANUAL

**Default**
MANUAL

**Allowed values / range**

**MANUAL** — Manual

**SENSOR** — Sensor (Cerbo GX)

## Manual temperature (degrees C)

Type: Decimal

DCFILTERTEMPERATURE

Fixed temperature for manual source. Ambient mode adds 14 degrees C for separator estimation; separator mode uses a suitable direct measurement.

**Example**
25

**Default**
25

**Allowed values / range**

Finite number; validated ambient range 10–40 degrees C, separator 20–54 degrees C. Lower values clamp; higher values require replacement.

## Replacement warning (%)

Type: Decimal

DCFILTERWARNING

Consumption threshold for the early replacement warning. Replacement is due at 100%; the recorded total is not capped at 100%.

**Example**
80

**Default**
80

**Allowed values / range**

Greater than 0 and less than 100

## Temperature measurement location

Type: Enum

DCFILTERLOCATION

AMBIENT estimates separator temperature as ambient plus 14 degrees C. SEPARATOR uses a suitable directly measured separator temperature. Do not use an ambient sensor as a separator measurement.

**Example**
`AMBIENT`

**Default**
`AMBIENT`

**Allowed values / range**

**`AMBIENT`** — Ambient (+14 °C)

**`SEPARATOR`** — Final separator (direct)

## Automatic condensate drain installed

Type: Boolean

DCFILTERAUTODRAIN

Suppress the 15-running-minute condensate reminder only when a suitable automatic drain is installed. This setting does not operate a drain.

**Example**
`off`

**Default**
`off`

**Allowed values / range**

on / off

## Editor section marker

Type: Text

DCENVSETTINGS

Config Editor form marker only. Indicates this section was submitted; not a persistent config.txt setting.

**Example**
`1`

**Default**

**Allowed values / range**

Editor-generated form marker

## Editor section marker

Type: Text

DCFILTERSETTINGS

Config Editor form marker only. Indicates this section was submitted; not a persistent config.txt setting.

**Example**
`1`

**Default**

**Allowed values / range**

Editor-generated form marker

# Hydraulic Valves (HV)

Configure hydraulic valve functions and the behavior of connected outputs. Verify valve assignments and safe switching behavior against the actual hydraulic installation.

## Maintenance cycle at approx. (System time, normally UTC)

Type: Enum

HVHTMAINT

Defines the maintenance action or position for the HT hydraulic-valve configuration. Verify connected actuators before using maintenance commands. Editor/firmware discrepancy: HV00 (approx. midnight) is offered by the editor but missing from the firmware domain; it falls back to HV99 (never).

**Example**
HV99

**Default**
HV99

**Allowed values / range**

**HV99** — never
**HV00** — approx. midnight
**HV01** — approx. 1am
**HV02** — approx. 2am
**HV03** — approx. 3am
**HV04** — approx. 4am
**HV05** — approx. 5am
**HV06** — approx. 6am
**HV07** — approx. 7am
**HV08** — approx. 8am
**HV09** — approx. 9am
**HV10** — approx. 10am
**HV11** — approx. 11am
**HV12** — approx. noon
**HV13** — approx. 1pm
**HV14** — approx. 2pm
**HV15** — approx. 3pm
**HV16** — approx. 4pm
**HV17** — approx. 5pm
**HV18** — approx. 6pm
**HV19** — approx. 7pm
**HV20** — approx. 8pm
**HV21** — approx. 9pm
**HV22** — approx. 10pm
**HV23** — approx. 11pm

## Reverse Open/Close

Type: Boolean

HVHTRVS

Reverses the actuator direction assignment for HT hydraulic-valve control. Confirm open and close behaviour after changing it.

**Example**
`off`

**Default**
`off`

**Allowed values / range**

on / off

## Pump 1 enabled

Type: Boolean

HVMP1

Enables pump/channel 1 in MP hydraulic mode. Configure its name and run duration before using the output.

**Example**
on

**Default**
off

**Allowed values / range**

on / off

## Run pump for (seconds, 3-1200, 180)

Type: Integer

HVMP1RUNFOR

Number of seconds for which MP pump/channel 1 runs when activated. Set a duration suitable for the connected equipment.

**Example**
180

**Default**
180

**Allowed values / range**

Editor: 3–1200 seconds (whole numbers). Firmware configuration-file range: 3–12000 seconds.

## Label

Type: Text

HVMP1TXT

Label displayed for MP pump/channel 1. Use a name describing the connected pump or function. The editor allows 1–32 characters; the firmware truncates the stored label to 16 bytes.

**Example**
Pump 1

**Default**
Pump 1

**Allowed values / range**

1–16 characters (firmware length limit)

## Pump 2 enabled

Type: Boolean

HVMP2

Enables pump/channel 2 in MP hydraulic mode. Configure its name and run duration before using the output.

**Example**
on

**Default**
`off`

**Allowed values / range**

on / off

## Run pump for (seconds, 3-1200, 180)

Type: Integer

HVMP2RUNFOR

Number of seconds for which MP pump/channel 2 runs when activated. Set a duration suitable for the connected equipment.

**Example**
`180`

**Default**
`180`

**Allowed values / range**

Editor: 3–1200 seconds (whole numbers). Firmware configuration-file range: 3–12000 seconds.

## Label

Type: Text

HVMP2TXT

Label displayed for MP pump/channel 2. Use a name describing the connected pump or function. The editor allows 1–32 characters; the firmware truncates the stored label to 16 bytes.

**Example**
`Pump 1`

**Default**
`Pump 2`

**Allowed values / range**

1–16 characters (firmware length limit)

## Pump 3 enabled

Type: Boolean

HVMP3

Enables pump/channel 3 in MP hydraulic mode. Configure its name and run duration before using the output.

**Example**
on

**Default**
`off`

**Allowed values / range**

on / off

## Run pump for (seconds, 3-1200, 180)

Type: Integer

HVMP3RUNFOR

Number of seconds for which MP pump/channel 3 runs when activated. Set a duration suitable for the connected equipment.

**Example**
`180`

**Default**
`180`

**Allowed values / range**

Editor: 3–1200 seconds (whole numbers). Firmware configuration-file range: 3–12000 seconds.

## Label

Type: Text

HVMP3TXT

Label displayed for MP pump/channel 3. Use a name describing the connected pump or function. The editor allows 1–32 characters; the firmware truncates the stored label to 16 bytes.

**Example**
`Pump 1`

**Default**
`Pump 3`

**Allowed values / range**

1–16 characters (firmware length limit)

## Pump 4 enabled

Type: Boolean

HVMP4

Enables pump/channel 4 in MP hydraulic mode. Configure its name and run duration before using the output.

**Example**
on

**Default**
`off`

**Allowed values / range**

on / off

## Run pump for (seconds, 3-1200, 180)

Type: Integer

HVMP4RUNFOR

Number of seconds for which MP pump/channel 4 runs when activated. Set a duration suitable for the connected equipment.

**Example**
`180`

**Default**
`180`

**Allowed values / range**

Editor: 3–1200 seconds (whole numbers). Firmware configuration-file range: 3–12000 seconds.

## Label

Type: Text

HVMP4TXT

Label displayed for MP pump/channel 4. Use a name describing the connected pump or function. The editor allows 1–32 characters; the firmware truncates the stored label to 16 bytes.

**Example**
`Pump 1`

**Default**
`Pump 4`

**Allowed values / range**

1–16 characters (firmware length limit)

## Valve 1 enabled

Type: Boolean

`HVNT1`

Enables valve/channel 1 in NT hydraulic mode. Its open, close and maintenance behaviour is configured separately.

**Example**
on

**Default**
`off`

**Allowed values / range**

on / off

## Maintenance cycle at approx. (System time, normally UTC)

Type: Enum

`HVNT1MAINT`

Maintenance action or position assigned to NT valve 1. Confirm that this position is safe for the connected system. Editor/firmware discrepancy: HV00 (approx. midnight) is offered by the editor but missing from the firmware domain; it falls back to HV99 (never).

**Example**
HV99

**Default**
HV99

**Allowed values / range**

**HV99** — never
**HV00** — approx. midnight
**HV01** — approx. 1am
**HV02** — approx. 2am
**HV03** — approx. 3am
**HV04** — approx. 4am
**HV05** — approx. 5am
**HV06** — approx. 6am
**HV07** — approx. 7am
**HV08** — approx. 8am
**HV09** — approx. 9am
**HV10** — approx. 10am
**HV11** — approx. 11am
**HV12** — approx. noon
**HV13** — approx. 1pm
**HV14** — approx. 2pm
**HV15** — approx. 3pm
**HV16** — approx. 4pm
**HV17** — approx. 5pm
**HV18** — approx. 6pm
**HV19** — approx. 7pm
**HV20** — approx. 8pm
**HV21** — approx. 9pm
**HV22** — approx. 10pm
**HV23** — approx. 11pm

### Label 'off'

Type: Text

HVNT1OFF

Action used to drive NT valve 1 to its OFF or closed state. Match the setting to the actuator wiring and valve behaviour.

**Example**
HV00

**Default**

**Allowed values / range**

0–8 characters (firmware length limit)

### Label 'on'

Type: Text

HVNT1ON

Action used to drive NT valve 1 to its ON or open state. Verify the physical result during commissioning.

**Example**
HV01

**Default**

**Allowed values / range**

0–8 characters (firmware length limit)

### Reverse

Type: Boolean

HVNT1RVS

Reverses the direction assignment for NT valve 1 when actuator movement is opposite to the expected ON/OFF behaviour.

**Example**
off

**Default**
off

**Allowed values / range**

on / off

### Label

Type: Text

HVNT1TXT

User-facing label for NT valve 1. Choose a name identifying the valve or controlled circuit. The editor allows 1–32 characters; the firmware truncates the stored label to 16 bytes.

**Example**
Valve 1

**Default**
Valve 1

**Allowed values / range**

1–16 characters (firmware length limit)

## Type

Type: Enum

HVNT1TYPE

Selects the actuator/control type for NT valve 1. The setting must match the installed valve hardware.

**Example**
0C

**Default**
0C

**Allowed values / range**

**0C** — Open/Close

**LR** — Left/Right

## Valve 2 enabled

Type: Boolean

HVNT2

Enables valve/channel 2 in NT hydraulic mode. Its open, close and maintenance behaviour is configured separately.

**Example**
on

**Default**
off

**Allowed values / range**

on / off

## Maintenance cycle at approx. (System time, normally UTC)

Type: Enum

HVNT2MAINT

Maintenance action or position assigned to NT valve 2. Confirm that this position is safe for the connected system. Editor/firmware discrepancy: HV00 (approx. midnight) is offered by the editor but missing from the firmware domain; it falls back to HV99 (never).

**Example**
HV99

**Default**
HV99

**Allowed values / range**

**HV99** — never
**HV00** — approx. midnight
**HV01** — approx. 1am
**HV02** — approx. 2am
**HV03** — approx. 3am
**HV04** — approx. 4am
**HV05** — approx. 5am
**HV06** — approx. 6am
**HV07** — approx. 7am
**HV08** — approx. 8am
**HV09** — approx. 9am
**HV10** — approx. 10am
**HV11** — approx. 11am
**HV12** — approx. noon
**HV13** — approx. 1pm
**HV14** — approx. 2pm
**HV15** — approx. 3pm
**HV16** — approx. 4pm
**HV17** — approx. 5pm
**HV18** — approx. 6pm
**HV19** — approx. 7pm
**HV20** — approx. 8pm
**HV21** — approx. 9pm
**HV22** — approx. 10pm
**HV23** — approx. 11pm

## Label 'off'

Type: Text

HVNT2OFF

Action used to drive NT valve 2 to its OFF or closed state. Match the setting to the actuator wiring and valve behaviour.

**Example**
HV00

**Default**

**Allowed values / range**

0–8 characters (firmware length limit)

### Label 'on'

Type: Text

HVNT2ON

Action used to drive NT valve 2 to its ON or open state. Verify the physical result during commissioning.

**Example**
`HV01`

**Default**

**Allowed values / range**

0–8 characters (firmware length limit)

### Reverse

Type: Boolean

HVNT2RVS

Reverses the direction assignment for NT valve 2 when actuator movement is opposite to the expected ON/OFF behaviour.

**Example**
`off`

**Default**
`off`

**Allowed values / range**

on / off

### Label

Type: Text

HVNT2TXT

User-facing label for NT valve 2. Choose a name identifying the valve or controlled circuit. The editor allows 1–32 characters; the firmware truncates the stored label to 16 bytes.

**Example**
`Valve 1`

**Default**
`Valve 2`

**Allowed values / range**

1–16 characters (firmware length limit)

### Type

Type: Enum

HVNT2TYPE

Selects the actuator/control type for NT valve 2. The setting must match the installed valve hardware.

**Example**
OC

**Default**
OC

**Allowed values / range**

**OC** — Open/Close

**LR** — Left/Right

## Valve 3 enabled

Type: Boolean

HVNT3

Enables valve/channel 3 in NT hydraulic mode. Its open, close and maintenance behaviour is configured separately.

**Example**
on

**Default**
`off`

**Allowed values / range**

on / off

## Maintenance cycle at approx. (System time, normally UTC)

Type: Enum

HVNT3MAINT

Maintenance action or position assigned to NT valve 3. Confirm that this position is safe for the connected system. Editor/firmware discrepancy: HV00 (approx. midnight) is offered by the editor but missing from the firmware domain; it falls back to HV99 (never).

**Example**
HV99

**Default**
HV99

**Allowed values / range**

**HV99** — never
**HV00** — approx. midnight
**HV01** — approx. 1am
**HV02** — approx. 2am
**HV03** — approx. 3am
**HV04** — approx. 4am
**HV05** — approx. 5am
**HV06** — approx. 6am
**HV07** — approx. 7am
**HV08** — approx. 8am
**HV09** — approx. 9am
**HV10** — approx. 10am
**HV11** — approx. 11am
**HV12** — approx. noon
**HV13** — approx. 1pm
**HV14** — approx. 2pm
**HV15** — approx. 3pm
**HV16** — approx. 4pm
**HV17** — approx. 5pm
**HV18** — approx. 6pm
**HV19** — approx. 7pm
**HV20** — approx. 8pm
**HV21** — approx. 9pm
**HV22** — approx. 10pm
**HV23** — approx. 11pm

### Label 'off'

Type: Text

HVNT3OFF

Action used to drive NT valve 3 to its OFF or closed state. Match the setting to the actuator wiring and valve behaviour.

**Example**
HV00

**Default**

**Allowed values / range**

0–8 characters (firmware length limit)

### Label 'on'

Type: Text

HVNT3ON

Action used to drive NT valve 3 to its ON or open state. Verify the physical result during commissioning.

**Example**
HV01

**Default**

**Allowed values / range**

0–8 characters (firmware length limit)

### Reverse

Type: Boolean

HVNT3RVS

Reverses the direction assignment for NT valve 3 when actuator movement is opposite to the expected ON/OFF behaviour.

**Example**
off

**Default**
off

**Allowed values / range**

on / off

### Label

Type: Text

HVNT3TXT

User-facing label for NT valve 3. Choose a name identifying the valve or controlled circuit. The editor allows 1–32 characters; the firmware truncates the stored label to 16 bytes.

**Example**
Valve 1

**Default**
Valve 3

**Allowed values / range**

1–16 characters (firmware length limit)

## Type

Type: Enum

HVNT3TYPE

Selects the actuator/control type for NT valve 3. The setting must match the installed valve hardware.

**Example**
0C

**Default**
0C

**Allowed values / range**

**0C** — Open/Close

**LR** — Left/Right

## Valve 4 enabled

Type: Boolean

HVNT4

Enables valve/channel 4 in NT hydraulic mode. Its open, close and maintenance behaviour is configured separately.

**Example**
on

**Default**
off

**Allowed values / range**

on / off

## Maintenance cycle at approx. (System time, normally UTC)

Type: Enum

HVNT4MAINT

Maintenance action or position assigned to NT valve 4. Confirm that this position is safe for the connected system. Editor/firmware discrepancy: HV00 (approx. midnight) is offered by the editor but missing from the firmware domain; it falls back to HV99 (never).

**Example**
HV99

**Default**
HV99

**Allowed values / range**

**HV99** — never
**HV00** — approx. midnight
**HV01** — approx. 1am
**HV02** — approx. 2am
**HV03** — approx. 3am
**HV04** — approx. 4am
**HV05** — approx. 5am
**HV06** — approx. 6am
**HV07** — approx. 7am
**HV08** — approx. 8am
**HV09** — approx. 9am
**HV10** — approx. 10am
**HV11** — approx. 11am
**HV12** — approx. noon
**HV13** — approx. 1pm
**HV14** — approx. 2pm
**HV15** — approx. 3pm
**HV16** — approx. 4pm
**HV17** — approx. 5pm
**HV18** — approx. 6pm
**HV19** — approx. 7pm
**HV20** — approx. 8pm
**HV21** — approx. 9pm
**HV22** — approx. 10pm
**HV23** — approx. 11pm

## Label 'off'

Type: Text

HVNT4OFF

Action used to drive NT valve 4 to its OFF or closed state. Match the setting to the actuator wiring and valve behaviour.

**Example**
HV00

**Default**

**Allowed values / range**

0–8 characters (firmware length limit)

## Label 'on'

Type: Text

HVNT4ON

Action used to drive NT valve 4 to its ON or open state. Verify the physical result during commissioning.

**Example**
`HV01`

**Default**

**Allowed values / range**

0–8 characters (firmware length limit)

## Reverse

Type: Boolean

HVNT4RVS

Reverses the direction assignment for NT valve 4 when actuator movement is opposite to the expected ON/OFF behaviour.

**Example**
`off`

**Default**
`off`

**Allowed values / range**

on / off

## Label

Type: Text

HVNT4TXT

User-facing label for NT valve 4. Choose a name identifying the valve or controlled circuit. The editor allows 1–32 characters; the firmware truncates the stored label to 16 bytes.

**Example**
`Valve 1`

**Default**
`Valve 4`

**Allowed values / range**

1–16 characters (firmware length limit)

## Type

Type: Enum

HVNT4TYPE

Selects the actuator/control type for NT valve 4. The setting must match the installed valve hardware.

**Example**
OC

**Default**
OC

**Allowed values / range**

**OC** — Open/Close

**LR** — Left/Right

### Type (System)

Type: Enum

HVTYPE

Selects the hydraulic-valve application subtype, such as HT, NT or MP. The selected type determines which channel settings and controls apply.

**Example**
MP

**Default**
MP

**Allowed values / range**

**HT** — Motorized Valve (H-Bridge) with position feedback
**NT** — Spring-Return Valve without position feedback
**MP** — Electric Pump (run-time controlled)

## Switching (SW)

Assign and configure switching functions for connected electrical loads. Review output assignments and control behavior to ensure each command operates the intended equipment.

### Switch 1 enabled

Type: Boolean

SW1

Enables switching channel 1 and makes its configured control available in the interface.

**Example**
on

**Default**
off

**Allowed values / range**

on / off

### MAXSEND (time in seconds)

Type: Integer

SW1MAXSEND

Maximum output activation time in seconds for momentary (MO) switching channel 1. Limits continuous operation from a held command.

**Example**
20

**Default**
20

**Allowed values / range**

1–86400 (whole numbers)

## Switch 1 Remote Control

Type: Boolean

`SW1REMOTE`

Allows remote control of switching channel 1 for supported maintained (MA) or timer (TI) modes. Enable only when remote operation is appropriate.

**Example**
`off`

**Default**
`off`

**Allowed values / range**

on / off

## Show Time / Timer

Type: Boolean

`SW1SHOWTIMER`

Shows timing information for switching channel 1 in the user interface, when the selected switching mode uses a timer.

**Example**
`off`

**Default**
`off`

**Allowed values / range**

on / off

## Relays Status at startup

Type: Enum

`SW1STARTUPACTION`

Defines the state of switching channel 1 after startup in supported modes: ON, OFF or LAST (restore previous state). Choose a safe default for the connected load.

**Example**
OFF

**Default**
OFF

**Allowed values / range**

**OFF** — off

**ON** — on

**LAST** — last

## Time (timer in seconds)

Type: Integer

SW1TIME

Automatic run duration, in seconds, for switching channel 1 when configured as a timer (TI) output. On an invalid value, the firmware falls back to 10.

**Example**
60

**Default**
60

**Allowed values / range**

1–86400 (whole numbers)

## Label

Type: Text

SW1TXT

Button label displayed for switching channel 1, such as Deck Light. Use a concise description of the connected load.

**Example**
Deck Light

**Default**
Cockpit

**Allowed values / range**

1–16 characters (firmware length limit)

## Type

Type: Enum

SW1TYPE

Selects the behaviour of switching channel 1: MO for momentary, MA for maintained on/off, or TI for timed operation.

**Example**
MA

**Default**
MA

**Allowed values / range**

**MA** — Maintained

**MO** — Momentary

**TI** — Timer

## Switch 2 enabled

Type: Boolean

SW2

Enables switching channel 2 and makes its configured control available in the interface.

**Example**
on

**Default**
off

**Allowed values / range**

on / off

## MAXSEND (time in seconds)

Type: Integer

SW2MAXSEND

Maximum output activation time in seconds for momentary (MO) switching channel 2. Limits continuous operation from a held command.

**Example**
20

**Default**
20

**Allowed values / range**

1–86400 (whole numbers)

## Switch 2 Remote Control

Type: Boolean

SW2REMOTE

Allows remote control of switching channel 2 for supported maintained (MA) or timer (TI) modes. Enable only when remote operation is appropriate.

**Example**
off

**Default**
off

**Allowed values / range**

on / off

## Show Time / Timer

Type: Boolean

SW2SHOWTIMER

Shows timing information for switching channel 2 in the user interface, when the selected switching mode uses a timer.

**Example**
off

**Default**
off

**Allowed values / range**

on / off

### Relays Status at startup

Type: Enum

SW2STARTUPACTION

Defines the state of switching channel 2 after startup in supported modes: ON, OFF or LAST (restore previous state). Choose a safe default for the connected load.

**Example**
OFF

**Default**
OFF

**Allowed values / range**

**OFF** — off
**ON** — on
**LAST** — last

### Time (timer in seconds)

Type: Integer

SW2TIME

Automatic run duration, in seconds, for switching channel 2 when configured as a timer (TI) output. On an invalid value, the firmware falls back to 10.

**Example**
60

**Default**
60

**Allowed values / range**

1–86400 (whole numbers)

### Label

Type: Text

SW2TXT

Button label displayed for switching channel 2, such as Deck Light. Use a concise description of the connected load.

**Example**
Deck Light

**Default**
Horn

**Allowed values / range**

1–16 characters (firmware length limit)

## SW2 Type

Type: Enum

SW2TYPE

Selects the behaviour of switching channel 2: MO for momentary, MA for maintained on/off, or TI for timed operation.

**Example**
MA

**Default**
MO

**Allowed values / range**

**MA** — Maintained
**MO** — Momentary
**TI** — Timer

## Switch 3 enabled

Type: Boolean

SW3

Enables switching channel 3 and makes its configured control available in the interface.

**Example**
on

**Default**
off

**Allowed values / range**

on / off

## MAXSEND (time in seconds)

Type: Integer

SW3MAXSEND

Maximum output activation time in seconds for momentary (MO) switching channel 3. Limits continuous operation from a held command.

**Example**
20

**Default**
20

**Allowed values / range**

1–86400 (whole numbers)

## Switch 3 Remote Control

Type: Boolean

SW3REMOTE

Allows remote control of switching channel 3 for supported maintained (MA) or timer (TI) modes. Enable only when remote operation is appropriate.

**Example**
off

**Default**
off

**Allowed values / range**

on / off

## Show Time / Timer

Type: Boolean

SW3SHOWTIMER

Shows timing information for switching channel 3 in the user interface, when the selected switching mode uses a timer.

**Example**
off

**Default**
off

**Allowed values / range**

on / off

## Relays Status at startup

Type: Enum

SW3STARTUPACTION

Defines the state of switching channel 3 after startup in supported modes: ON, OFF or LAST (restore previous state). Choose a safe default for the connected load.

**Example**
OFF

**Default**
OFF

**Allowed values / range**

**OFF** — off

**ON** — on

**LAST** — last

### Time (timer in seconds)

Type: Integer

SW3TIME

Automatic run duration, in seconds, for switching channel 3 when configured as a timer (TI) output. On an invalid value, the firmware falls back to 10.

**Example**
`60`

**Default**
`60`

**Allowed values / range**

1–86400 (whole numbers)

### Label

Type: Text

SW3TXT

Button label displayed for switching channel 3, such as Deck Light. Use a concise description of the connected load.

**Example**
`Deck Light`

**Default**
`Bimini`

**Allowed values / range**

1–16 characters (firmware length limit)

### Type

Type: Enum

SW3TYPE

Selects the behaviour of switching channel 3: MO for momentary, MA for maintained on/off, or TI for timed operation.

**Example**
`MA`

**Default**
`MA`

**Allowed values / range**

**`MA`** — Maintained

**`MO`** — Momentary

**`TI`** — Timer

## Switch 4 enabled

Type: Boolean

SW4

Enables switching channel 4 and makes its configured control available in the interface.

**Example**
on

**Default**
off

**Allowed values / range**

on / off

## MAXSEND (time in seconds)

Type: Integer

SW4MAXSEND

Maximum output activation time in seconds for momentary (MO) switching channel 4. Limits continuous operation from a held command.

**Example**
20

**Default**
20

**Allowed values / range**

1–86400 (whole numbers)

## Switch 4 Remote Control

Type: Boolean

SW4REMOTE

Allows remote control of switching channel 4 for supported maintained (MA) or timer (TI) modes. Enable only when remote operation is appropriate.

**Example**
off

**Default**
off

**Allowed values / range**

on / off

## Show Time / Timer

Type: Boolean

SW4SHOWTIMER

Shows timing information for switching channel 4 in the user interface, when the selected switching mode uses a timer.

**Example**
off

**Default**
off

**Allowed values / range**

on / off

### Relays Status at startup

Type: Enum

SW4STARTUPACTION

Defines the state of switching channel 4 after startup in supported modes: ON, OFF or LAST (restore previous state). Choose a safe default for the connected load.

**Example**
OFF

**Default**
OFF

**Allowed values / range**

**OFF** — off
**ON** — on
**LAST** — last

### Time (timer in seconds)

Type: Integer

SW4TIME

Automatic run duration, in seconds, for switching channel 4 when configured as a timer (TI) output. On an invalid value, the firmware falls back to 10.

**Example**
60

**Default**
60

**Allowed values / range**

1–86400 (whole numbers)

### Label

Type: Text

SW4TXT

Button label displayed for switching channel 4, such as Deck Light. Use a concise description of the connected load.

**Example**
Deck Light

**Default**
Underwater

**Allowed values / range**

1–16 characters (firmware length limit)

### Type

Type: Enum

SW4TYPE

Selects the behaviour of switching channel 4: MO for momentary, MA for maintained on/off, or TI for timed operation.

**Example**
MA

**Default**
TI

**Allowed values / range**

**MA** — Maintained
**MO** — Momentary
**TI** — Timer

## Generator (GE)

Configure generator model, start/stop control, automatic operation, and service-related settings. Confirm wiring, running feedback, and safety conditions before enabling remote or automatic starts.

### Enable automatic generator control

Type: Boolean

GENAUTOSTART

Enables automatic generator start and stop according to the configured battery state-of-charge or voltage thresholds. Ensure the generator wiring, running feedback, and safety interlocks are configured correctly before enabling.

**Example**
off

**Default**
off

**Allowed values / range**

on / off

### Use Battery State of Charge (SoC)

Type: Boolean

GENAUTOSTARTSOC

Allows the generator automatic control to use battery State of Charge (SoC) values for its start and stop decisions. Configure the lower start threshold and upper stop threshold separately.

**Example**
off

**Default**
off

**Allowed values / range**

on / off

## Use Battery Voltage

Type: Boolean

GENAUTOSTARTVOLTAGE

Allows automatic generator control to use battery voltage for start and stop decisions. Select the correct nominal battery system voltage and configure the corresponding thresholds.

**Example**
`off`

**Default**
`off`

**Allowed values / range**

on / off

## Battery system

Type: Enum

GENBATTERYVOLTAGE

Nominal battery system voltage (12, 24 or 48 V), used to validate voltage thresholds.

**Example**
`12`

**Default**
`12`

**Allowed values / range**

**12** — 12 V

**24** — 24 V

**48** — 48 V

## Default generator runtime (minutes, 1-1440)

Type: Integer

GENDEFAULTRUNTIME

Default generator running duration in minutes used when starting a timed generator session. Adjust this to the normal charging or power-supply requirement.

**Example**
`120`

**Default**
`120`

**Allowed values / range**

1–1440 (whole numbers)

## Enable oil level check reminder

Type: Boolean

GENERATOROILCHECK

Enables oil-level check reminders for the generator. The reminder interval is configured separately in operating hours.

**Example**
on

**Default**
on

**Allowed values / range**

on / off

## Oil level check interval (hours, 5-100)

Type: Integer

GENERATOROILCHECKINTERVAL

Number of generator operating hours between oil-level check reminders. The reminder is active only when oil checks are enabled.

**Example**
25

**Default**
25

**Allowed values / range**

5–100 (whole numbers)

## Generator service interval (hours, 20-1000)

Type: Integer

GENERATORSERVICEINTERVAL

Number of generator operating hours between scheduled maintenance services. The maintenance reminder uses this interval to determine when the next service is due.

**Example**
200

**Default**
200

**Allowed values / range**

20–1000 (whole numbers)

## Generator Model

Type: Enum

GENMODEL

Selects the generator control profile, which determines how Node V2 handles start, stop and running feedback. Match this setting to the actual installed generator. The firmware also accepts GEOTHER, which is not offered by the Config Editor.

**Example**
GEONAN

**Default**
GEONAN

**Allowed values / range**

**GEONAN** — Cummins Onan
**GEFPANDA** — Fisher Panda
**GEMAVS1** — MASE VS
**GEGSVS1** — GENSET VS

## Continue running after reaching 100% SoC (minutes)

Type: Integer

GENSOCFULLRUNMIN

Additional generator runtime in minutes after 100% SoC, when applicable.

**Example**
0

**Default**
0

**Allowed values / range**

0–1440 (whole numbers)

## Start generator at or below (%)

Type: Integer

GENSOCSTART

Battery State of Charge threshold, in percent, at or below which an enabled SoC-based automatic start may be requested. Start must be lower than Stop. Invalid SoC pairs fall back to 30%/80%.

**Example**
30

**Default**
30

**Allowed values / range**

0–99 (whole numbers)

### Stop generator at or above (%)

Type: Integer

GENSOCSTOP

Battery State of Charge threshold, in percent, at or above which an enabled SoC-based automatic stop may be requested. Start must be lower than Stop. Invalid SoC pairs fall back to 30%/80%.

**Example**
80

**Default**
80

**Allowed values / range**

1–100 (whole numbers)

### Generator starting timeout (seconds, 0-120)

Type: Integer

GENSTARTTIME

Maximum time, in seconds, to wait for running feedback on IN8 after initiating a start on supported maintained-run generator models. A timeout indicates that start confirmation was not received.

**Example**
30

**Default**
30

**Allowed values / range**

0–120 (whole numbers)

### Generator stopping timeout (seconds, 0-120)

Type: Integer

GENSTOPTIME

Maximum time, in seconds, to wait for running feedback on IN8 to clear after requesting stop on supported maintained-run generator models.

**Example**
30

**Default**
30

**Allowed values / range**

0–120 (whole numbers)

## Start generator at or below (V)

Type: Decimal

GENVOLTSTART

Battery-voltage threshold below which the generator should start (V). Invalid voltage pairs fall back to 12.0/13.5 V, 24.0/27.0 V, or 48.0/54.0 V according to the selected battery system.

**Example**
12.0

**Default**
12.0

**Allowed values / range**

12 V system: 10–16 V; 24 V system: 20–32 V; 48 V system: 40–64 V. Decimal values accepted. Start must be lower than Stop.

## Stop generator at or above (V)

Type: Decimal

GENVOLTSTOP

Battery-voltage threshold at which the generator may stop (V). Invalid voltage pairs fall back to 12.0/13.5 V, 24.0/27.0 V, or 48.0/54.0 V according to the selected battery system.

**Example**
13.5

**Default**
13.5

**Allowed values / range**

12 V system: 10–16 V; 24 V system: 20–32 V; 48 V system: 40–64 V. Decimal values accepted. Start must be lower than Stop.

## Onan START signal (seconds, 1-120)

Type: Integer

ONANSTARTTIME

Duration in seconds of the START pulse sent on relay R1 for a compatible Cummins Onan generator. Match the setting to the generator interface requirements.

**Example**
15

**Default**
15

**Allowed values / range**

1–120 (whole numbers)

## Onan STOP signal (seconds, 1-120)

Type: Integer

`ONANSTOPTIME`

Duration in seconds of the STOP pulse sent on relay R2 for a compatible Cummins Onan generator. Match the setting to the generator interface requirements.

**Example**
`10`

**Default**
`10`

**Allowed values / range**

1–120 (whole numbers)

SMARTER.YACHTS NODE V2

# End of configuration reference

Firmware 2.3.0 · Build 01709
Online configuration reference:
https://smarter.yachts/manuals/configuration

Smarter.Yachts
APASWISS AG
Weihermatt 51
6343 Rotkreuz
Switzerland
CHE-330.002.181
D-U-N-S® Number: 480003905
contact@smarter.yachts
https://smarter.yachts