GLOSSARY

The words of the MUXEN training, as you meet them on the boat, on the on-board screen and on the workbench. They are also the words of whoever you call for support: naming a part the same way on both ends of the line is half the diagnosis.

ON BOARD

Brain — the on-board computer. It runs the screen, stores the boat's configuration, records what happens and provides remote access for support.

Bloc 8 — it distributes and protects DC power, close to the loads. Inside, there is no relay and no fuse.

eFuse — on every output of a Bloc 8, it switches and protects with no moving part. It resets from the screen.

Local panel — the 8 keys on the front of a Bloc: local control, without the screen and without the network. Along the bottom: POWER OK and CAN OK.

Gateway — a box that brings equipment that is not MUXEN onto the boat's screens: the Victron chargers, the genset, a watermaker, the solar panels. Its orange connector is always the MUXEN side.

SFSP switch — a wireless, battery-free switch. It is paired to a function from the screen, on Diagnostics → Wireless switch.

SFSP receiver — fitted on the bus. The pairings are kept in the receiver, not in the switches.

ON THE DECEPTICON WORKBENCH

Decepticon workbench — ashore. It gives a box from the shelf its position on one boat, before it is fitted: it loads the firmware, the address and the settings, then prints the label.

Position — the place of a box on one boat, such as P_180 VICTRON. The positions are the yard's drawing references. It is the first line of the label.

Firmware — what the box is: the firmware loaded into a box decides what it does. On the workbench: FW Version.

Address — which one the box is. On the workbench: Addr, and Not initialized when the box has no position yet.

UID — the serial number of the box, on the workbench and on the label. Same box, same UID.

Label — printed by the workbench: the position, the boat, the date, the UID. Stick it on the box. Two boxes that look alike can be two different gateways: read the label.

THE NETWORK

CAN bus — a single pair of wires that every device on board is connected to.

Backbone — the main network cable running through the boat.

Distributor (T) — where a device taps into the backbone. The backbone is never cut to add a device.

Terminator — the plug that closes each end of the backbone. Both ends, always.

Drop cable — where to look when a module is powered but not on the bus. MUXEN uses orange M12 connectors, so that they cannot be confused with anything else on board.

ON THE ON-BOARD SCREEN

Diagnostics — the hidden menu of the on-board screen. Open Settings → Status, then tap the Support icon quickly, several times, until it opens.

Commissioning — the tool of the Diagnostics menu that configures the boat from a template. Its assistant asks questions: the model, the hull number, the cabin layout, the options. Nothing is written before the last button.

Template — a boat with every option it can be built with. The Brain has one per model and cabin layout.

Project — the copy of the template for one hull, with its own options, under the boat's name. It is the configuration of this boat.

Option — a question with two answers: fitted on this hull, or not. Not fitted removes the equipment from the boat's configuration: no button, no value, no alarm.

Hull number — with the model, it names the boat's project and the Brain on the network, shown on the Hostname line of Settings → Status. It is what you read out when you call support.

Deploy — on a module's card, in Diagnostics → Devices. It writes the boat's configuration into that one box, then restarts it: whatever it drives goes off and comes back.

Raken — the tool used afterwards, for advanced tuning: the project created by commissioning is available in it.

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IN RAKEN

Instance — used to number the products. A setting, stored in the module. Raken counts instances from 1: Bloc 8 #1, #2…

Adopt — on the Devices page, on a module the scan detected, but not managed in this project: the project takes it in.

Locate — on the Devices page: the box shows itself on its LEDs. Used to identify a piece of equipment when working remotely.

Check config — in the module's menu, then Analyse. Raken reads the module's configuration and compares it with the project: Device is in sync with raken config.

Fuses — the page where the eFuses of a Bloc 8 are set. Two settings per output: Maximum Current Limit (mA), the trip value, the current above which the output is cut; Fuse delay (ms), how long an overload is allowed, for the starting current of a motor or a pump.

Energy parc — used to define which batteries are connected to this equipment.

Muxing — the page of the multiplexing rules. A rule says what a switch does. At deploy, it is written into the module itself: the Bloc runs it, not the Brain. An output belongs to one rule.

Sensor — Raken has no tank object. A tank is a Sensor whose unit is litres: it takes a voltage on a module input and turns it into a volume.

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