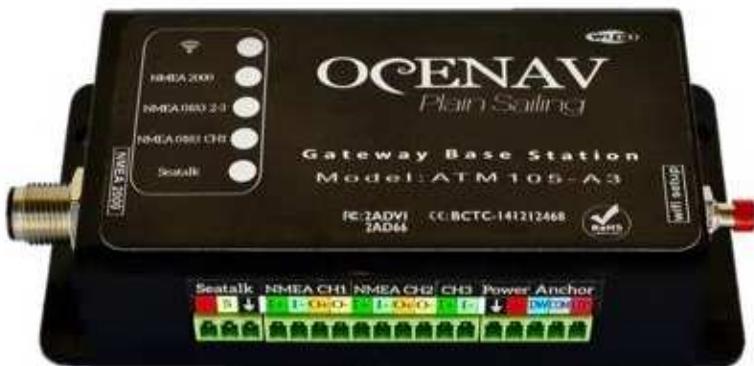


OCENAV

MULTIPLEXER / GATEWAY UNIT Quick installation guide.



Important Information:

Security notes

ATTENTION: Installing and handling this product.

This equipment must be installed according to the instructions and by authorized personnel. Otherwise Ocenav will not assume any responsibility.

WARNING: Electrical safety.

Make sure the power is off before you start installing this product.

CAUTION: Safety navigation.

This product should only be used as a navigation aid and never as a substitute for common sense and good judgment. The user assumes the responsibility and risks associated with the use of this device.

Information manual.

The information in this document is subject to change without notice. Ocenav reserves the right to change or improve its products and to make changes in the content without obligation to notify any person or organization of such changes or improvements. Visit the Web site Ocenav (www.ocenav.com) for current updates and supplemental information concerning the use and operation of Ocenav products. Ocenav not accept liability for any differences there are between the product and the manual.

Introduction:

You have chosen an OCENAV gateway with Seatalk™ bus and WIFI in all its versions. ATM105A2/A3 can handle several autopilot types.

There is no single configuration connection for their installation, since many combinations of equipment that can be connected, however, the most common configurations are:

For all models:

- Seatalk: Raymarine instruments and autopilot.
- WIFI: Mobile Applications (NMEA0183 Input and Output)
- NMEA0183 channel 1: GPS / Plotter / Multi-function (input and output)

For ATM105A1N gateway:

- NMEA2000: GPS / Plotter, Windex, magnetic compass, sounder, Log, Thermometer and Manometer. (strip wired).
- NMEA0183 IN Channel 2: Instrument NMEA0183 or AIS.

For ATM105A2 gateway:

- NMEA0183 channel 2: NMEA0183 instrument, secondary GPS or VHF (input and output).
- NMEA0183 IN Channel 3: AIS.
- Links STxxxx, Smartpilot and autopilot wireless controller.
- Anchor windlass outputs.

For ATM105A3 gateway:

- NMEA2000: GPS / Plotter, Windex, magnetic compass, sounder, Log, Thermometer and Manometer. (Standard NMEA2000 connector).
- NMEA0183 (Channel 1.2): GPS, other instruments, mast repeaters, VHF etc. (Input and output).
- NMEA0183 IN Channel 3: AIS
- Links STxxxx, Smartpilot, Evolution, Simnet based Simrad / B&G autopilots with wireless autopilot controller. Anchor windlass outputs.

Before installing this device:

If you are not familiar with nautical instruments communications, it is recommended that the installation be performed by a specialist, otherwise any liability will be rejected.

- It is very important that before installing the cables and connection points of the instruments to be connected, be analyzed the viability of the passage of the necessary cables through the ship study, and draw all clearly in a scheme. This makes it possible to simplify the

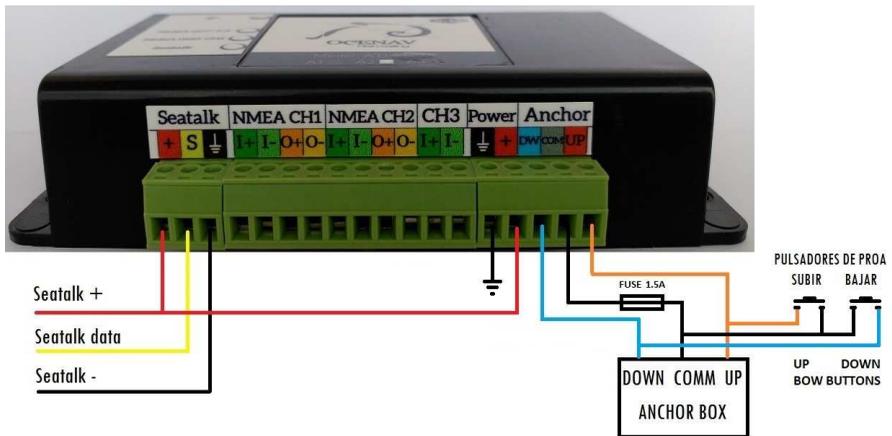
installation and determine where will be more convenient to place the ATM105A gateway.

- Make sure the power is off before you start installing this product.
- It is recommended that all instruments are interconnected through this gateway. That way the wiring is reduced and increases the communications performance.
- The ATM105A2 and A3 versions have relay outputs to control anchor windlass. These outputs **(1 Amp maximum)** are connected in the same points of the relay box that footswitches on deck. Therefore, the passage provision must be provided over a 3-wire cable from the base to ATM105A to said relay box.

Installation:

The equipment must be positioned bolted to a vertical base, with connections at the bottom, in a place free of condensation, at a height of 1m above the float level and outside enclosures or metal wires.

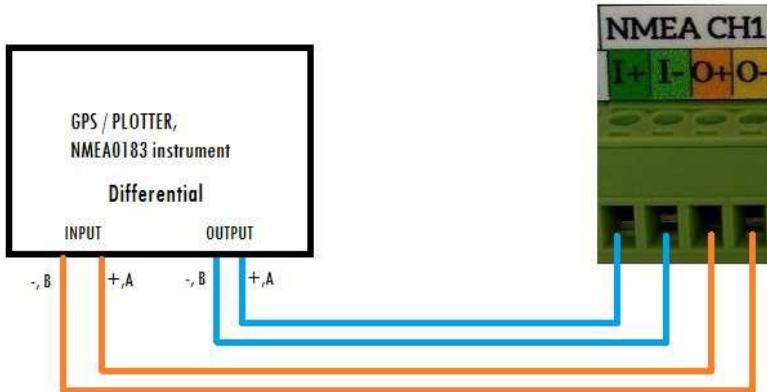
- Power Connection, Seatalk and anchor windlass:



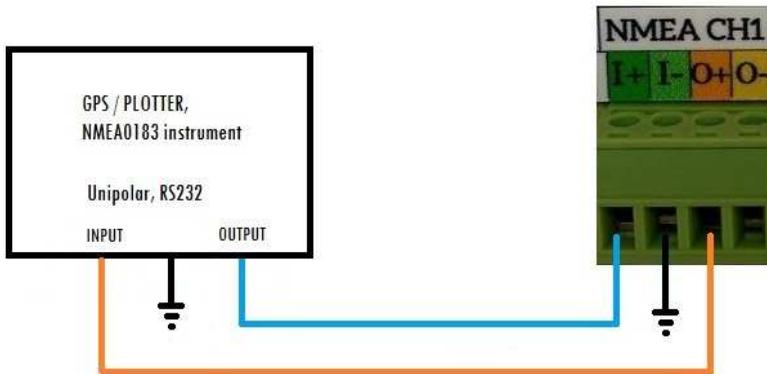
NOTES:

- If "Power +" is not connected to Seatalk bus, the supply voltage will be from 8 to 28V. You do not need fuse, since the equipment incorporates an automatic inside.
- (Suited) Install a 1.5 A fuse in the Anchor COM wire.
- For more detailed information, see the manual "TECH INFO ATM105A.pdf".

- Connecting NMEA 0183 inputs and outputs, all channels:



Connection to a instrument with differential input/output (RS422)



Connecting to a instrument with single pole input/output (RS232)
(Leave without connecting the ATM105A output O-)

- Connecting NMEA2000:

Connect the equipment to a power voltage drop or branch available by several manufacturers (Garmin, Lowrance, etc), or an adapter cable NMEA2000 / Seataalk (ng) Raymarine, or by type connector Brad Micro-Charge (M12) BINDER series or 763. Do not ever connect directly to the main bus. The ATM105A3 has a very low consumption from NMEA2000 (90mA - LEN = 2). When the gateway connects to NMEA2000, there is no need to connect power to the front 5-pin connector (Power/anchor).

WI-FI zone and apps configuration:

- Phone settings, computer. WIFI ACCESS:

SSID (Access Point Name): OCENAV_____

Password access point: atm105_____

- Mobile APP settings:

Connection mode: UDP broadcast / multicast

UDP Address: 45.0.20.1

Port (device): 1433

Port (host): 2433

Wi-Fi and data processing settings:

IMPORTANT: If your mobile device has internet access (mobile data or ethernet), temporarily disable that connection and only enable WiFi access during setup.

Press and hold the red button during the start-up of the device and, using the mobile device, connect to the OCENAVxxxxx.

Open the phone / tablet browser. At this moment, the gateway will send a configuration page to said browser.

If the configuration page does not open automatically, type www.ocenav.com in the address bar and / or clear the browser history.

There are two groups of options:

- Configuration of the access point: name of the WiFi, password, AP or Client, power of emission, ports, etc.

- Speed of the NMEA0183 channels and processing options for the NMEA0183 and NMEA2000 frames.

- Once the changes have been made, press the "SEND" key.

See the manual "WIFI configuration.pdf" for more details.

Technical data:

Power supply: 8-28V DC, internal resettable fuse.

Maximum consumption: ATM105A1N: 1W (80mA to 12.5V, LEN = 2)

ATM105A2 / 3: 1.2W (90mA to 12.5V, LEN = 2)

Maximum current charge by the NMEA0183 inputs: 5mA

Maximum current supplied by the NMEA0183 outputs: 15mA

ANCHOR maximum relay output current: 1A.

WIFI: 802.11 b/g/n protocol, maximum power: 20 dB

Complete transceiver (transmit and receive) 100% Seatalk compatible.
Radio communication with the ATM105B: 2.4 Ghz, + 20dB

WARRANTY

It is applicable to products sold through authorized dealers.
limited warranty.

Subject to the terms, conditions and limitations set forth in this Limited Warranty. Ocenav warrants its products properly installed and operated free from defects in material and workmanship for a period of 24 months from the date of first purchase.

Ocenav its sole discretion repair or replace any defective product or component returned during the Warranty Period under the terms, conditions and limitations set forth herein. Such repairs or changes will be the only remedy for the customer under this warranty.

Obtaining Warranty Service:

To access the warranty service, the product must be returned to an authorized dealer or directly to Ocenav within the warranty period and within 30 days after notice of product failure. Any product returned by mail must be securely packaged, sending prepaid and insured to Ocenav or an authorized dealer.

All products must be accompanied by the original sales receipt to enjoy this guarantee.

Has a list of dealers in our web www.ocenav.com

Limitations and exclusions:

In addition to any limitations and exclusions set forth herein, Ocenav not be responsible and this warranty does not cover:

- Bug Abuse, disuse, accident, unauthorized repair or alteration, improper installation (or do not Ocenav an authorized service agent), shipping damage or corrosion.
- Costs associated with routine testing, test drives or tuning.
- Repair or replacement of consumable items included in the apparatus.
- Costs associated with overtime or outside working hours.
- Differences in material, color or size that may exist between actual products and the pictures or descriptions of such products in our advertisements, brochures or the Internet.
- The change or loss of housing components of any product purchased through an online site auction or second hand.

OCENAV, June 2020
2nd revision: Mars 2017
3rd revisión: June 2020