

NEMO

The compact radio remote control for operating gangway, anchor windlass, tender, propellers, horn of any brand and model. It combines quality and safety to aesthetics and ergonomics, it is water resistant and floatable. 100% Made in Italy.



APPLICATIONS



BOATING INDUSTRY
PLEASURE BOATS

FEATURES

SAFETY

The **safety-related features** of Nemo and Nemo Plus radio remote controls are:

- Maintained function: the operation stays active only if the related button is pressed. Once the button is released, the operation stops.
- 2 minutes Time Out: the radio communication is timed out 2 minutes after last operation.
- Nemo Plus model: double confirmation of the operation. The function to be operated has to be activated by selecting it with the selection button and confirming it with the Start button.
- Uniqueness: Each controller has a distinct factory-defined source code (over 4 billion IDs) that prevents its interaction with unidentified systems. Several devices can work in the same area without interference.

LEDs and BUTTONS Nemo Plus model: 4 LEDs operate for indicating gangway, anchor, propellers, tender function selection, radio transmission, low battery. Buttons: Start and Stop (top left and right), 4 arrow keys (middle), siren (bottom left), function selection (bottom right). Nemo Gangway and Nemo Propeller models: 2 LEDs dedicated to low battery indicator and radio transmission indicator. Start and Stop buttons (top left and right), 4 arrow keys (middle), siren button (bottom left). Nemo Anchor and Nemo Tender models: 2 LEDs dedicated to low battery indicator and radio transmission indicator. Start and Stop buttons (top left and right), Up and Down buttons (middle), siren button (bottom left).

BACKLIT KEYPAD Backlit keypad allows the recognizing of key functions in poor light conditions.

FLOATING Volumetric ratios enable handheld devices to float.

ERGONOMICS Ergonomic design, 10 mm. diameter buttons, small size and lightweight enable easy and effortless hold.

DURABILITY Highly resistant plastic is co-injected with a rubber shell that makes its hold firmer and protects from accidental falls, even from a 4 meters' height.

DURATION Maximum autonomy of 2.500 hours in stand-by and up to 200 hours of continuous transmission.

EMERGENCY OUTPUT It stays active for the whole duration of the work session. Therefore, it can be used for activating additional safety devices.

MASTER OUTPUT Indicated to command bypass valves or contactors for the pump activation in most hydraulic systems, Master Output is provided on all functions.

PROTECTION FROM POWER SUPPLY POLE INVERSION The use of specific components against power supply pole inversion grants the integrity of the device during installation and maintenance operations.

OUTPUT PROTECTION All the outputs are protected from short circuits, surges and inverse voltage. The integration of recirculation diodes on the outputs makes the device perfectly suitable to command inductive loads, such as electro and solenoid valves.

WIRING The connector with a slide lock ensures easy installation, maintenance and cabling operations, while granting a durable connection. Standard provision is a cable 1 meter long.

EXTERNAL ANTENNA External Antenna is the effective solution to installation locations not optimized for radio transmission, ensuring an increased input signal gain. A SMA screw-type connector grants long-lasting and rust-proof contact; by implementing specific procedures during the assembly phase, sealing is granted from external agents. The antenna cable is 5 meters long.



COMPLIANCE WITH STANDARDS

Conforms relevant Union harmonisation legislation: 2014/53/EU
 Art. 3(1)(a) HEALTH – EN 62479:2010
 Art. 3(1)(a) SAFETY – EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013
 Art. 3(1)(b) EMC – EN 301 489-1 V.2.2.0 Cap. 9.2; EN 301 489-3 V.2.1.1
 Art. 3(2) RADIO SPECTRUM – ETSI EN 300 220-2 V.3.1.1 par. 4.5
 Conforms relevant Union harmonisation legislation: 2004/104/EC
 Conforms relevant USA legislation: FCC Part 15.249

OPTIONS



COLLAR Simple and effective solution for always having the Sistematica handheld available and at the same time for working hands free.

Equipped with a tear off connection, the collar complies with suffocation-proof safety standards.

All Sistematica handheld devices are suitable for collar application, providing a durable ring specifically manufactured in the plastic casing.

SUPPORT Supports are realized in plastic material and apt to fastening, using two screws (not supplied). The special design enables easy use of the handheld even when on its support, while completely maintaining its functionalities.

The support can be supplied in a standard version, or provided with a SafetyPoint™

RADIO-CAN Receiver for logic distribution based on CAN-Bus.

The ideal solution for integrating the Sistematica system with third party devices, such as PLCs or control units, as well as for creating Distributed systems, able to switch the commands from the handheld device towards several controllers.

Frequency	868 MHz – NEMO PLUS KIT – Ref. XKITSE401XFHX 868 MHz – NEMO TENDER KIT – Ref. XKITSE401CFXX 868 MHz – NEMO ANCHOR KIT – Ref. XKITSE401DFXX 868 MHz – NEMO GANGWAY KIT – Ref. XKITSE401AFAX 868 MHz – NEMO PROPELLER KIT – Ref. XKITSE401BFAX 915 MHz – upon request
Power supply	n. 2 AAA 1,5V batteries
Absorption in stand-by	~ 5 µA
Average absorption during transmission	25 mA
Maximum capacity	150 meters in free space and without obstacles
IP Protection	Controller: IP66 – Handheld: IP67
Handheld weight (with batteries)	120 g.
Dimensions (H x L x P)	Nemo Controller: 108x110x44 mm. Nemo Plus Controller: 133x154x44 mm. Handheld: 109x56x30 mm.
Voltage supply	12-24 Vdc±10%
Maximum current per output	5A
Total maximum current	Nemo controller: 10A / Nemo Plus Controller: 20A
Connector	SICMA 24
Ambience working temperature	from -20°C to +55°C