

SEA MACHINES 200

INDUSTRIAL-GRADE REMOTE CONTROL

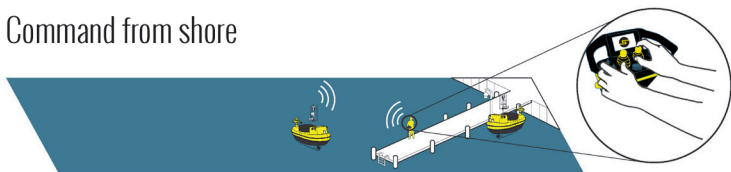
FOR COMMERCIAL WORKBOATS



- **Vessel control** via dynamic joystick
- **Range** 1 km
- **Flexible** controls preferences and equipment monitoring
- **Interfaces** with auxillary controls (lights, pumps, winches, etc.)
- **Increases capability** and safety of operations

VESSEL CONTROL FROM BEYOND THE WHEELHOUSE

Command from shore



Or from a nearby vessel



SEA MACHINES

SEA MACHINES 200

ONBOARD CABINET



Industrial-Grade Control Hub
with Flexible Sensor Integration

| Primary Hardware | Description |
|--------------------|---|
| Cabinet Enclosure | IP66 Rated, 316 Stainless Steel |
| Dimensions | 16 x 16 x 6.8 in. (40.64 x 40.64 x 17.272 cm.) |
| Weight | 38 lbs. (17.24 kg) |
| Components | 100% Solid State, Ruggedized |
| Certifications | By Most Recognized Authorities (ABS, DNV, BV) |
| Temperature Rating | 0-60° C |

| Machinery Integration | Compatibility |
|-----------------------|---------------------------|
| Engine controls | Electronic or Mechanical |
| Steering | Electronic or Hydraulic |
| Transmission | Clutch & Gear Control |
| Auxiliaries | Per Operator Requirements |

| Payload Control | Applications |
|-------------------|----------------------------|
| Fire pumps | Fireboats |
| Sonar | Survey |
| Winches / Loading | Tugs / Aquaculture |
| Crane/Davit | Equipment Deployment |
| ROV | Research, Mining, Recovery |
| Moonpool | Equipment Deployment |

| Power Requirements | |
|------------------------|---------------------|
| Nominal Input Voltage | 12V |
| Max Current | 12A |
| Power Auxillary Output | 12V, 2A and 24V, 2A |

| Equipment Integration | Input/Output |
|------------------------|--------------|
| Digital Input / Output | 14 / 47 |
| Analog Input / Output | 14 / 4 |

| Data Ports | |
|-------------------|-------------------|
| 1 x Ethernet Port | 1 x Serial Port |
| NMEA 2000 | Profibus/Profinet |

REMOTE USER INTERFACE



Industrial Joystick for
Remote Control Navigation

| User Interfaces | Component Type |
|---------------------------------|---|
| 2x Joysticks (Positive Hold) | Combined Gear & Throttle |
| 1x Steering Knob | Rudder Control |
| 11 x Assignable Toggle Switches | Thrusters, Auxiliaries, Lights, Payload |
| 1x Emergency Stop Button | All Stop / Stops Engines |
| Color LCD Screen | Display Vessel Parameters |

| Vessel Parameters | Active Commands & Conditions |
|----------------------------|------------------------------|
| Single or Multiple Engines | Running / Stopped |
| Propulsion Gear | Fwd / Neutral / Astern |
| Propeller Speed | RPM |
| Batteries | Supply Voltage |
| Engine & Gear | Temp. / Oil Pressure |
| Fuel | Tank Levels |
| Rudder Indicator | Degrees Port/Starboard |
| Vessel Attitude | Pitch / Roll / Heave |

| Navigation Parameters | |
|-----------------------|--------------------|
| Heading | Speed Over Ground |
| Position | Course Over Ground |

| Interruptions | Safety Devices |
|------------------------|-------------------------------|
| Loss of Communications | All Stop, Hold Station, Other |
| Manual Emergency Stop | ALL STOP on All Interfaces |

| Remote Controller Specs | |
|-------------------------|------------------------------|
| Frequency | 915 Mhz |
| Range | 1 km (Approx.) Line of Sight |
| Avg. Battery Life | 8 Hours |



sea-machines.com

Sea Machines Robotics, Inc.
256 Marginal St, Building 16A | Boston, MA 02128 USA
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