

# OMNIPRO

## Deep Sea 73xx Install Guide

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### 1. Unpack Components

- Unpack the monitor, antenna, and data and power cable.
- Inspect all components to ensure there is no shipping damage.

### 2. Installing Antenna

- Place the antenna vertically at the center of the roof of the generator.
- Route the antenna cable into the area of the generator control.
- Ensure a drip loop lower than the monitor to prevent water from running down the antenna cable into the monitor connection.

### 3. Attach the Antenna Cable:

- Attach the antenna cable to the front of the monitor and tighten thumb tight.

### 4. Attaching the Monitor.

- Attach the monitor via its magnetic feet, on top of the engine controller or another appropriate location.
- Horizontal surfaces are best, but the unit may be mounted vertically or even upside down if necessary.

*\*Note: If mounted vertically, install the monitor with the cables down to prevent water from entering the enclosure.*

### 5. Connect the Monitor:

- The monitor can connect to the Deep Sea Controller via a 2-wire (RS485) Modbus connection or DB9 (RS232).

### 6. Utilize Modbus Capabilities:

- Connect the OMN white (Data+) and green (Data-) wires to RS485 connector Data- A and Data+ B.
- Connect DB9 connector to RS232 communication port on back of controller and tighten screws.
- Set up Controller Communication port according to connection type to Baud Rate = 19200, Server ID = 10, Port Usage = Modbus Server (Shown below)
- Set up VLEDS (Shown Below)

### 7. Power On and Check LEDs:

- Confirm that the LEDs light up and blink. *(Scan QR Code for light sequence)*
- If not, check for power wires at the battery.

### 8. Confirm Installation:

- Allow 15 minutes for the monitor to log into the network. Call OmniMetrix at 770-209-0012 to confirm installation.

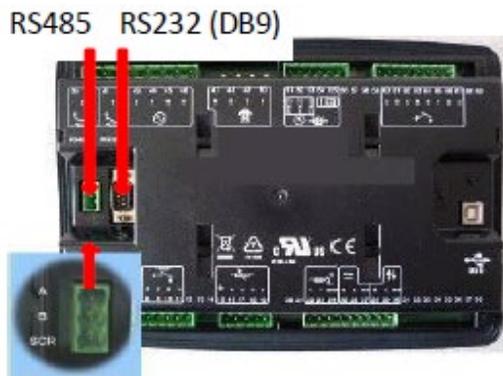


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Deep Sea 73xx Wiring Diagram (RS485)			
SLEEVE COLOR	OMNI WIRE	FUNCTION	TERMINATION
Red	Red	Power In (9-30Vdc)	Battery +
	Black	Ground	Battery -
Blue	White	Modbus Data +	57B
	Green	Modbus Data -	58A

Deep Sea 73xx Wiring Diagram (RS232)			
SLEEVE COLOR	OMNI WIRE	FUNCTION	TERMINATION
Red	Red	Power In (9-30Vdc)	Battery +
	Black	Ground	Battery -
Yellow	DB9 (Serial Port)	Modbus Data	RS232 Connector



DSE73xx Controller (Back)

If you have any questions, please call OmniMetrix Tech Support at

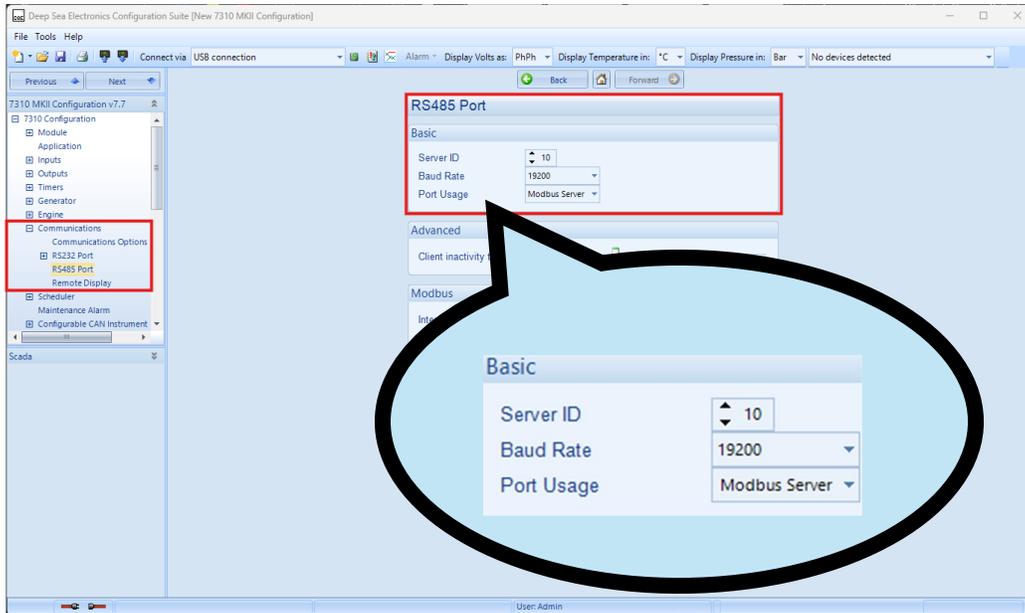
770-209-0012 or email at [techsupport@omnimetrix.net](mailto:techsupport@omnimetrix.net)



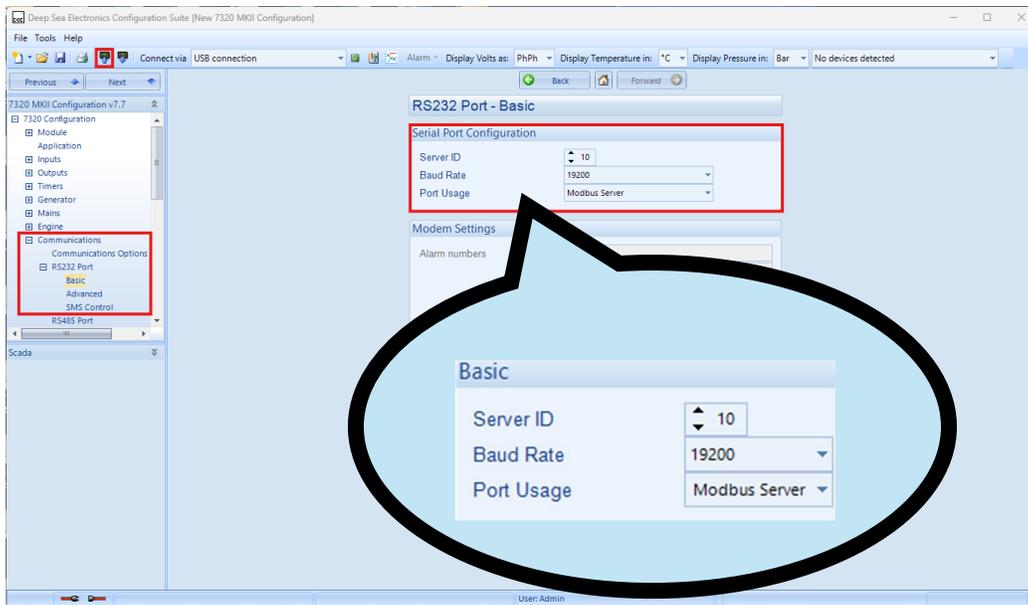
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### RS485 Set Up



### RS232 Set Up



### Virtual LED's Set Up

The screenshot displays the 'Deep Sea Electronics Configuration Suite' software. The main window is titled '7320 MKII Configuration v7.7'. On the left, a tree view shows the configuration hierarchy, with 'Virtual LEDs' under 'Digital Outputs' highlighted. The main area shows the 'Virtual LEDs' configuration table, which is also highlighted with a red box. The table lists 20 LEDs, each with a source and a polarity.

LED	Source	Polarity
LED 1	Not Used	Lit
LED 2	Calling For Scheduled Run	Lit
LED 3	System In Auto Mode	Lit
LED 4	System In Manual Mode	Lit
LED 5	System In Stop Mode	Lit
LED 6	Common Alarm	Lit
LED 7	Common Warning	Lit
LED 8	Common Shutdown	Lit
LED 9	Fail To Start	Lit
LED 10	Over Speed Shutdown	Lit
LED 11	High Coolant Temperature Warning	Lit
LED 12	High Coolant Temperature Shutdown	Lit
LED 13	Low Oil Pressure Warning	Lit
LED 14	Low Oil Pressure Shutdown	Lit
LED 15	Battery Low Voltage	Lit
LED 16	Generator Low Voltage Warning	Lit
LED 17	Generator High Volts Shutdown	Lit
LED 18	Emergency Stop	Lit
LED 19	Fuel Level Low Alarm	Lit
LED 20	Low Coolant Temperature	Lit

