FB-Sentry WD300

IS0389
Rev B 04/2019

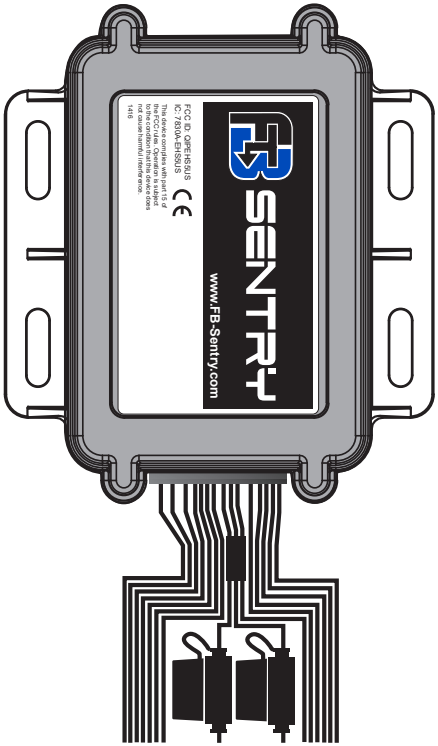
Part Number	
KTW479	KTW480

Installation

Location:

Be sure to locate the WD300 MTU so the internal GPS and Cellular antennas have a clear view of the sky. The orientation of the MTU does not matter as long as it is not installed behind or below materials that can block radio transmissions.

The preferred mounting is with the harnessing coming from the bottom of the MTU with appropriate stain relief.

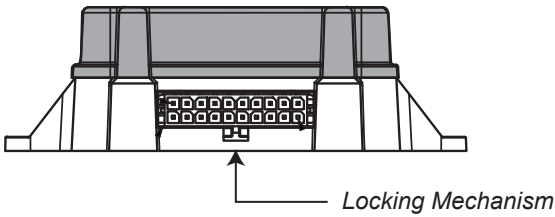


Note: Materials such as metal can interfere with the radio transmissions used by the MTU and can reduce service reliability. These types of materials should be avoided. Materials like fiberglass allow radio signals to transmit without interference. It is OK to mount behind or below these types of materials.

The MTU should be installed in a dry area, away from the elements. This unit is rated IP-54 and protected from Dust and Splashing water, however prolonged exposure can have adverse affects.

Harness Connection

Locate the 20-pin connector and push into the MTU with the locking mechanism located to the bottom of the MTU.



Wire Connection

Connect the Red Wire (pin 14) to the main battery (12 or 24 VDC ready) or an un-switched power source with in-line fuse installed.

Connect the Black Wire (pin 15) to the negative side of the battery.

If a second battery is monitored connect the Pink Wire (pin 5) to the positive side of the battery and make sure to install the in-line fuse.

Wire Guide

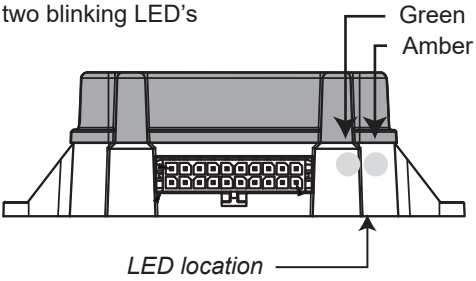
Battery #1	To battery #1 (positive)	14	Red
Battery #1 (neg)	To battery #1 (negative)	15	Black
Battery #2	To battery #2 (positive)	5	Pink
Bilge counter	To positive side of bilge pump	3	Blue
Bilge counter #2	To positive side of bilge pump 2	7	Gray
High water	High water switch (to gnd)	12	Orange
Entry alert	To door or motion sensor (NO)	6	Violet
Shore power (requires optional DC adapter)	To DC adapter positive lead	8	White
	To DC adapter negative lead	16	Black
Temperature (requires optional temperature sensor)	To temp sensor: black	1	Black
	To temp. sensor: yellow	17	White/Blue
	To temp. sensor: red	9	White/Orange
Control 1	Relay coil sink (150ma)	2	Green
Control 2	Relay coil sink (150ma)	10	Brown
Control 3	Relay coil sink (150ma)	11	Yellow
Serial to CAN	Ground for serial	19	Black
	Power for serial	9	White/Orange
	Serial Tx	18	White/Green
	Serial Rx	20	White/Violet

Check for GPS fix

With power applied check for two blinking LED's

Amber for GSM Signal

Green for GPS fix.



Note: To view the LED look in the clear plastic part of the case on the right side of the connector. The LEDs are located inside the case.

To be fully operation both LED must be solid (on).

The tables below identify the meaning of the blinking sequence for diagnostic purposes.

LED #1 (Cellular signal - Amber)

Off	Modem Off
Slow Blinking (1 Hz)	Comm On - Searching
Fast Blinking (3 Hz)	Network Available
Alternates from Solid to Fast Blink (1 per second)	Registered but no Inbound acknowledgment
Solid (On)	Registered and Received Inbound acknowledgment.

LED #2 (GPS signal - Green)

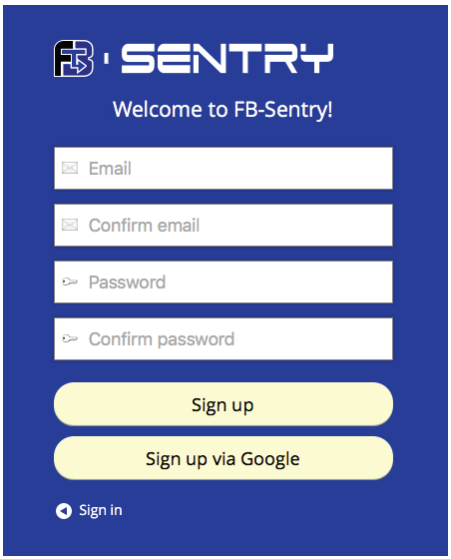
Off	GPS Off
Slow Blinking (1 Hz)	GPS On - Searching
Fast Blinking (3 Hz)	GPS - Time Sync
Solid (On)	GPS - Fix

Activation

Go to www.fb-sentry.com

Click on the “Sign Up” link.

Enter your email and password at the prompts.



From your email, record the verification code.

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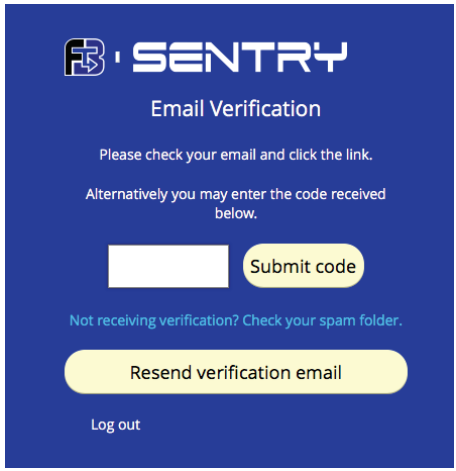
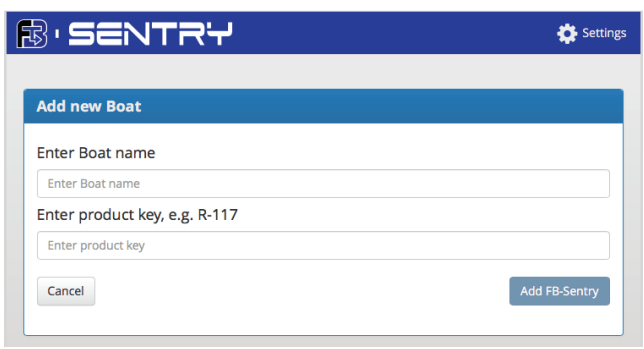
Enter verification code at prompt.



Enter your boat name.

Enter product key. The product key can be found on the MTU on the brand label.

The product key is also recorded on the label to the right.



Activation Serial Number

Follow the remaining prompts to complete activation

Web Application

For your convenience you can add the web application (FB-Sentry) to your home screen.

iOS

Launch the Safari browser and navigate to www.fb-sentry.com. Tap the share button on the browsers tool bar.

Android

Launch Chrome for Android and open the website www.fb-sentry.com. Tap the menu button.

Both

Tap the Add to Home Screen icon in the menu. Name the icon shortcut and save.

Additional Monitoring

Bilge Pumps

If bilge pumps are to be monitored connect bilge pump 1 via the Blue Wire (Pin 3) to positive side of the pump. If a second bilge pump is to be monitored connect the Gray Wire (Pin 7) to the positive side of the bilge pump. tic purposes.

High Water Detection

If a High Water Detection is required connect the Orange Wire (Pin 12) to the ground side of the Faria Beede FB-Sentry High Water/Float Switch Part # SW0050.

Entry Door Monitoring

If entry monitoring is required connect the Violet Wire (Pin 6) to the Faria Beede FB-Sentry Entry Door Switch Sensor Monitoring Kit (will do 2 doors, hatches, etc.) Part # SW0049 and follow the installation instructions

Shore Power Monitoring

If shore power is to be monitored connect the White Wire (Pin 8) and Black Wire (Pin 16) to the Faria Beede FB-Sentry Shore Power Sensor Part # SN0073 and follow the installation instructions.

Temperature Monitoring

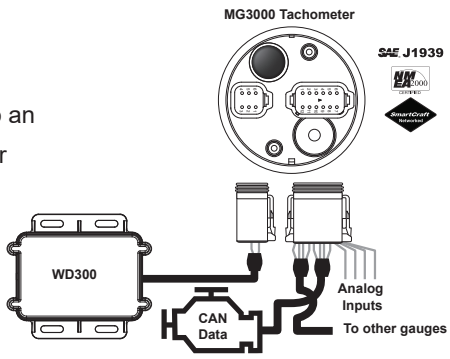
If temperature monitoring is required connect the Black Wire (Pin 1), White/Blue (Pin 17) and White/Orange Wires to the Faria Beede FB-Sentry Temperature Sensor Part # SN0072 and follow the installation instructions.

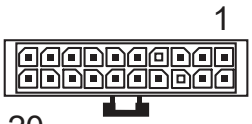
Remote Digital Switching

The Faria Beede FB- Sentry MTU will sink 150mA's to turn on various switches. To turn on/off Device 1 connect Green Wire (Pin 2), for Device #2 connect the Brown Wire (Pin 10) and Device #3 connect the Yellow Wire (Pin 11) to a Faria Beede FB-Sentry Control Relay(s) (12 vdc.) Part # SW0050 or Faria Beede FB-Sentry Control Relay(s) (24 vdc.) Part # SW0051.

Engine Monitoring

The Faria Beede FB-Sentry can be connected to an optional Faria Beede digital MG3000 Tachometer for Engine Monitoring.





Pin Side

1 Black
2 Green
3 Blue
4 N/C
5 Pink
6 Violet
7 Gray
8 White
9 White/Orange
10 Brown
11 Yellow
12 Orange
13 N/C
14 Red
15 Black
16 Black
17 White/Blue
18 White/Green
19 Black
20 White/Violet

Serial Rx
Serial Ground
Serial Tx
Serial Power

Secondary Battery

Main Battery

Bilge Pump #1 — Pos

Bilge Pump #2 — Pos

Door/Motion Sensor (NO) SW0049

Temp Sender SN0072 — Black, Yellow, Red

Water Float Switch SW0050 — Gnd, Main Power

Shore Power SN0073 — Neg, Pos — AC In

Remote Switch Relay SW0051 — Device 1 (150 mA), Device 2 (150 mA), Device 3 (150 mA)

For technical assistance, contact Faria Beede Instruments - Customer Service between 8:30 AM and 5:30 PM
Eastern time weekdays at (860) 848-9271 or (800) 473-2742.

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