



PS2Tap

APRS World, LLC

Installation Guide



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PS2TAP INSTALLATION GUIDE

Thank-you for purchasing APRS World's **PS2Tap**! We are confident that you will find this to be a valuable tool and sound investment in assisting you monitor your Bergey Powersync II or DTI Gale Inverter.

Installation Note: This installation guide was done using the smaller 6kW inverter. The procedure should be virtually identical for the 12kW Powersync II inverter or DTI Gale Inverter.

Installation

Items Needed for Installation

Included with PS2Tap Kit:

- PS2Tap Module
- Antenna
- Display Cable
- PS2Tap installation template
- PS2Tap Install Kit
 - 2 x Machine screw, #6-32 x 1/2"
 - 2 x Nut, #6-32
 - 4 x Zip tie, 4"
 - 2 x Zip tie base
 - 1 x Magnet (to trap chips)
 - 1 x Drill bit, 5/32"

Additional items needed:

- Drill
- Center Punch
- Screw driver
- Cutter
- Drill bit or hole saw capable of creating a 3/4" hole



Step 1

Place the included magnet in the lower left corner of the inverter enclosure to capture any metal chips created by drilling.



Step 2

Align the installation template with the lower left corner of the inverter as shown.



It may be easier to cut the template down to size and tape it in place.



Step 3

Using a center punch, mark the three "Drill" marks shown on the installation template.



Step 4

Using the included 5/32" drill bit, drill three holes at the locations that were just marked.



Step 5

Using an appropriate drill bit or hole saw, enlarge the middle hole to a 3/4" diameter.



Step 6

Using a de-burring bit or tool, remove any sharp edges or burrs from the drilled holes.



Step 7

Using the magnet that was placed in the corner of the enclosure, sweep up any additional loose metal chips from the drilling process. Be **extremely** careful, as these chips will be sharp. Also be careful not to drop any chips into the inverter's electronics.



Step 8

Insert the two included #6-32 x 1/2" machine screws into the 5/32" drilled holes from the outside of the inverter.



Step 9

It may be useful to temporarily tape these in place while installing the PS2Tap.



Step 10

Put the PS2Tap module in place over the screws as shown, with the gold antenna connector protruding through the larger 3/4" hole.



Step 11

Place the two included #6-32 nuts on the screws as shown.



Step 12

Tighten the screws.



Step 13

Unplug the grey cable that is plugged into to the back of the inverter display.



Step 14

This cable needs to be plugged into the lower PS2Tap connector as shown.

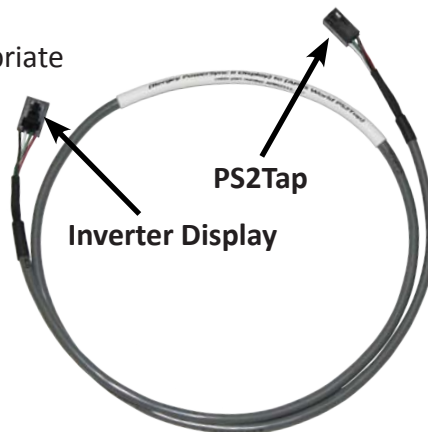


To do so, you may need to cut some of the existing zip-ties. Be careful not to cut any wires!



Step 15

Next plug the appropriate end of the new included cable into the upper PS2Tap connector.



Plug the other end into the back of the inverter display.



IMPORTANT: DO *NOT* PLUG THIS CABLE INTO THE CPLD CONNECTOR ON THE INVERTER ALL-IN-ONE BOARD!

Step 16

Neatly zip-tie the cables back in place using the included zip-ties and bases. Make sure there is appropriate slack where needed.

NOTE: Loose or improperly routed cables can cause interference as well as issues with the performance of the PS2Tap and inverter display.



Step 17

Finally, attach the antenna to the gold connector protruding from the case.



Step 18

This completes the installation of the PS2Tap module into the inverter. You will now need to plug the Wireless Ethernet Gateway (wireless receiver) into the customer's always-on internet connection. Make sure you plug in the network cable before applying power.

NOTE: The Wireless Gateway must be connected to an internet connected network which supports DHCP. (Most home broadband routers do.) You should see the yellow light next to the Wireless Gateway's antenna flicker once every 10 seconds while the inverter is turned on. If not, the wireless receiver may not be within range of the PS2Tap's signal.



WorldData

Finally, you can call or e-mail to set up your **WorldData** account and password if you have not done so already.

APRS World, LLC
507-454-2727
info@aprsworld.com

Welcome to
WorldData
by APRS World, LLC

You have purchased equipment which sends live data to the internet.
To set up your system with a username and password, please contact us:

+1-507-454-2727
or
andrew@aprsworld.com

Please have the following information ready when you call or e-mail:

PS2Tap Serial Number: _____	<i>(Example: A1234)</i>
Turbine Owner's Name: _____	<i>(John Smith)</i>
Site Title or Name: _____	<i>(Smith Farm Bergey Excel)</i>
Preferred User Name: _____	<i>(jsmith)</i>
Preferred Password: _____	

Note: If desired, we can set up a temporary password for you, which you can change after logging in. We can also create multiple accounts for the same PS2Tap if necessary.
After your system is set up, you will be able to view your live data at:

<http://mybergey.aprsworld.com/>



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