This is what our EE recommends:

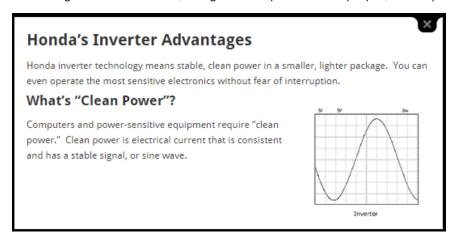
## Note:

It is the user responsibility to follow all generators' safety instructions. Consult a qualified electrician, electrical inspector, or local agency having jurisdiction for local codes or ordinances that apply to the intended use of the generator, including proper generator and equipment grounding.

Using the EU2000i with Picarro Analyzer

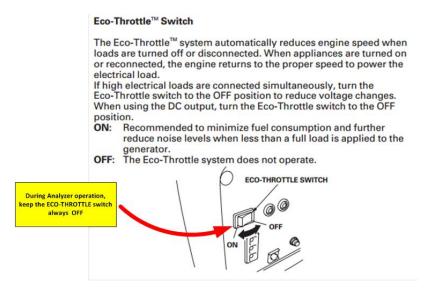
Good things about your setup:

- The Honda EU2000i generator has enough power for the G2000 Picarro analyzer.
- If an inverter is going to be used to power the Analyzer, a pure sinewave inverter is recommended. According to Honda website, this generator provides the proper, stable power.



## http://powerequipment.honda.com/generators/models/eu2000i

Honda EU2000i Eco-Throttle switch -



I recommend keeping the Eco-Throttle switch permanently OFF. The Analyzer load to the generator will drastically change during system warm up and operation. This load change could be interpreted by the generator as external loads being disconnected, reducing generator engine speed to minimize fuel consumption. That may cause electrical noise in the generators AC lines that could affect the Analyzer operation.

Concerns regarding your setup

Safety and operational concerns:

- The Honda2000i generator has the AC neutral and ground completely isolated. The analyzer requires a proper ground connection to work properly. The analyzer chassis is internally attached to AC

is nearly no voltage between the neutral and the ground. Hence, touching neutral will not cause current to flow through human body into ground.

Since in the Honda2000i generator the neutral and ground lines are isolated, the current that may appear in the grounding conductor could result in potentially dangerous voltages on the analyzer enclosure that could result in an analyzer failure and, especially a safety issue. Therefore, the installation of grounding and neutral conductors needs to be carefully inspected by a qualified electrician.

With the ground and neutral lines concern in mind, I search the web for Honda2000i safety installation problems and I found the following post in the Honda web site reviews:

http://powerequipment.honda.com/generators/models/eu2000i



Reading this particular review, you may need to contact Honda, and mention them regarding the neutral/ground lines voltage concern and they may have a solution for you.

Recommended equipment TURN ON procedure:

- 1. Set Honda2000i generator Eco-Throttle switch OFF position
- 2. With Picarro Analyzer AC line DISCONNECTED from generator, start generator. Leave generator running for a minute or so to get the power output line voltage stable.

3.

Connect Picarro Analyzer AC line and start the instrument