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9dot Sync Injectors GPS Synchronizing System User Guide

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Quick Setup

Quick installation procedure below.
Please note that this mini guide is not intended to be a replacement for the product manual that you can find on the website www..9dot.it and yes therefore recommends reading the manual for any doubts or information.

- (Optional) Install Rack Mount Adapters.
- Wire the power supply as indicated. (Fig. 1)
- Connect the power supply pins of the power supply to the GigaSync paying attention to the polarity adopted. (Ref. Q&A 1 Fig.2)
- (Optional) Insert the GigaSync in the structure used to house the devices. (Fig.3)
- Insert the cartridges in the appropriate sections of the GigaSync, taking care to insert them in the correct direction (Remember that the gigasync cartridges can be inserted and removed even when hot). (Fig.4)
- Connect the power supply to the electricity.
- Do a network configuration setup. (Ref. Q&A 10 and 11)

INSTALLATION INSTRUCTION

- Wire the power supply as indicated. (Fig. 1)
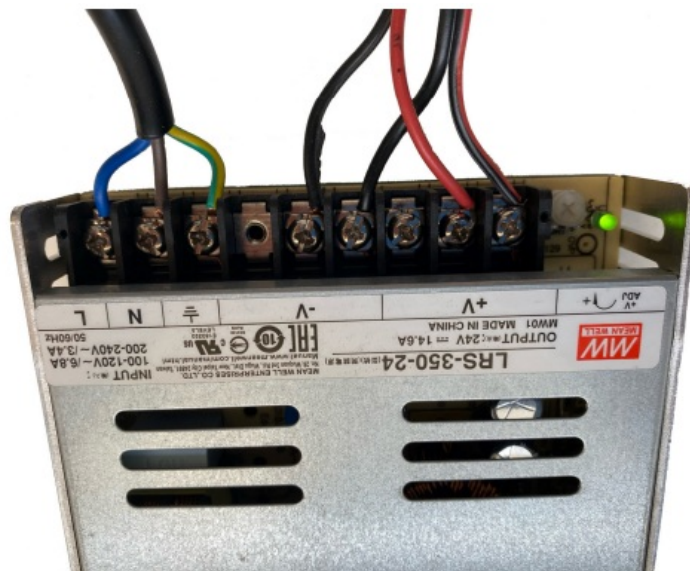
- Connect the power supply pins of the power supply to the GigaSync paying attention to the polarity adopted. (Ref. Q&A 1 Fig.2)

- (Optional) Insert the GigaSync in the structure used to house the devices. (Fig.3)

- Insert the cartridges in the appropriate sections of the GigaSync, taking care to insert them in the correct direction. (Fig.4)

Q&A

1. **Are there any problems if I connect different voltages to the same cartridge?**
   - The 2 input connectors of each cartridge connect the masses (negative pole) of what is connected to them. It is therefore possible to connect 2 different power supplies to the 2 connectors, as long as these can have the masses in common. In the case of 2 different power supplies (e.g. 48V and 24V), the cartridge will power the output devices with the highest active voltage.
   - It is not possible to choose via software which voltage to power the devices, in this case.

2. **Are there any problems if I connect different voltages to different cartridges?**
   No, the GigaSync cartridges are isolated from each other and are isolated from the ground

3. **Can I power the GigaSync / cartridges at -48V?**
   Yes, on the MAIN connector the polarity is indifferent while on the cartridge connectors it is suffi-cient to connect the -48V to the negative pole and the ground to the positive pole.

4. **I connected an uGPS/cnPulse to the SYNC-IN port, is it powered?**
   Yes, GigaSync powers the SYNC-IN port to allow the use of an uGPS/cnPulse.

5. **I have connected a uGPS/cnPulse to the SYNC-IN port but I can't see the satellite data / GPS position, is this normal?**
   Yes, the GS does not read the data transmitted by the uGPS/cnPulse on the SYNC-IN port, but only the synchronous pulse.

6. **How do I know if the GigaSync has found the synchronization pulse?**
   You have 2 possibilities:

   1. From interface: open the main menu (accordion) and select the SYNC tab. Next to the 2 selectable sources (internal GPS and SYNC-IN port) there are 2 indicators, so if the pulse has been recognized they will be green. The source does not need to be selected for this to happen.
   2. From front LEDs: the SYNC LED flashes once a second in the event of a pulse present (valid only for the selected sync source).

7. **When I connect a device to the GigaSync, it signals me a short circuit and then turns on the device correctly, is this normal?**
   All GigaSync cartridges integrate short circuit protection; some devices require a large amount of cur-rent when switching on, such as to trigger the short protection; at the second ignition attempt this current required is lower and the GigaSync feeds it correctly.

8. **Current readings are inconsistent with applied loads**
   The GigaSync calibrates the current readings upon insertion of a new cartridge. If necessary, insert and remove the cartridge again to perform a new calibration.

9. **I can't change the SNMP community, what should I do?**
   The GigaSync uses SNMP v3, so there is no community. User and password are the same used to access the interface and the ssh shell. The standard request for an SNMP walk is as follows: snmpwalk -v 3 -l authNoPriv -u "admin" -a sha -A "password" -m ./genmib.mib 192.168.9.1 .1.3.6.1.4.1.48108.

10. **I don't remember the IP address of the GigaSync and the device does not reset to factory settings, what can I do?**
    The reset button is assigned to 2 functions: if held for 5 seconds it activates / deactivates the GigaSync wi-fi, if kept for 30+ seconds it resets the access credentials to the default ones but does not reset the IP address. In order to access the device in case of loss of the IP address, you can con-nect to the wi-fi interface of the device

and use the default IP address (10.9.9.1/24).

11. **Access problems behind NAT. The device responds with "login – connection error" from the web when it is behind NAT. Are there other ports beyond 80 (http) that must be "natted" for authentication to work?**

    No, the device uses the standard communication ports, it is recommended to correctly configure the gateway on the device or to check the firewall.

12. **More description / documentation of the MIB file**

    See file at the following Link.

CONTACTS

- **Billing Address**

  Lungarno Gambacorti, 55 56125 Pisa (Italy) **sales@9dot.it**

- **R&D Address**

  - Via Piersanti Mattarella, 11/F,

  - 30037 Gardigiano di Scorzè VE (Italy) **sales@9dot.it**

Documents / Resources

QUICK GUIDE SYNC INJECTORS	**9dot Sync Injectors GPS Synchronizing System** [pdf] User Guide Sync Injectors GPS Synchronizing System, GPS Synchronizing System, GPS Synchronizing, Synchronizing

References

- **9dot - Smart Power Energy Systems**