

## Connect your EIG Nexus 1500 meter to Wattics with the Obvius AcquiSuite EMB A8810 Data Acquisition Server



Are you ready for energy savings? Enable our cloud-based energy analytics and dashboard for your [EIG Nexus 1500](#) meter via the [Obvius AcquiSuite Data Acquisition Server](#), to discover, measure and verify savings in the premises you manage.

*NOTE: It is assumed that the EIG Nexus 1500 is already installed. If not, read and understand EIG manuals for installing, operating, or maintaining your Nexus 1500 meters. Installation and program procedures must be carried out and inspected by qualified personnel. Qualified personnel are those who, based on their training and experience, are capable of identifying risks and avoiding potential hazards when working with this product.*

### Step 1: Purchase an Obvius AcquiSuite EMB A8810 Data Acquisition Server

You need to get in touch with Obvius or one of their resellers to purchase an AcquiSuite EMB A8810 Data Acquisition Server. The EMB A881 will be used to collect data from your EIG Nexus 1500 meter and push it to Wattics.

[Go to Obvius website](#)

The Obvius team will assist you with the supply and installation of the data acquisition server.

Step 2: Retrieve specific information from your Obvius AcquiSuite server

*At this stage it is assumed that your Obvius AcquiSuite EMB A8810 Data Acquisition Server is installed and collecting data from you Nexus 1500 meter(s).*

You must first check the sticker at the back of your Acquisuite Server, and write down the **SERIAL NUMBER**.

Then, use your browser to connect to the Acquisuite Server configuration webpage (you can find your gateway's IP address on its display).

> Click on "Click here for System Configuration".

> When prompted to log in, use the default admin/admin credentials (or other if you have modified them).



The screenshot shows a web browser window with the address bar displaying "192.168.1.24/index.cgi". The page title is "AcquiSuite - Data Acquisition Server". Below the title, it shows "AcquiSuite Name: 001EC60538EF" and a link "Click here for System Configuration". The footer contains the Obvius logo, contact information (20497 SW Teton Ave, Tualatin, OR 97062; Ph: +1-503-601-2099; Fax: +1-503-601-6878), a support email link (support@obvius.com), and the current time: Wednesday, April 12 2017 14:00:12 IST.

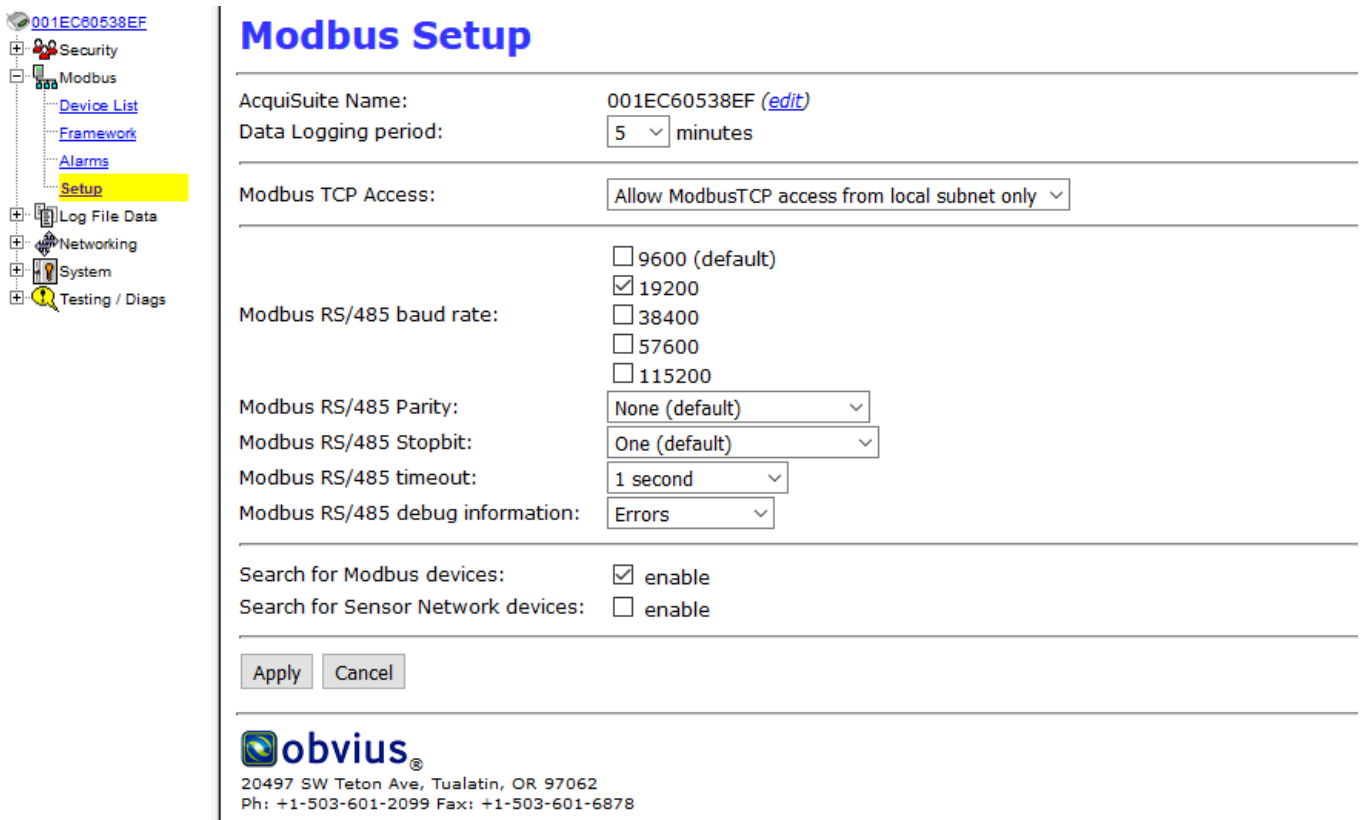
Select the Modbus/Setup section from the menu on the left.

> Write down the **ACQUISUITE NAME** of your gateway. This name may be the same as the serial number, and you may edit it first if you want to give it a name that you can remember more easily.

> Write down the **DATA LOGGING PERIOD** of your gateway, which indicates the sampling

rate.

> Make a screenshot/photo of that page (that you will send on to us)



**Modbus Setup**

AcquiSuite Name: 001EC60538EF ([edit](#))

Data Logging period: 5 minutes

Modbus TCP Access: Allow ModbusTCP access from local subnet only

Modbus RS/485 baud rate:  9600 (default)  19200  38400  57600  115200

Modbus RS/485 Parity: None (default)

Modbus RS/485 Stopbit: One (default)

Modbus RS/485 timeout: 1 second

Modbus RS/485 debug information: Errors

Search for Modbus devices:  enable

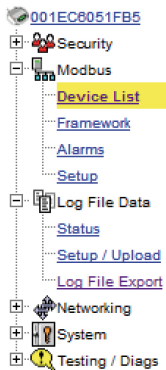
Search for Sensor Network devices:  enable

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Click on Modbus/Device List section from the menu on the left.

> Copy for all the Modbus devices connected to your Acquisuite Server their **NAME AND PURPOSE** together with their **TYPE**.

> Make a screenshot/photo of that page (that you will send on to us)



## Modbus device list

Device	Status	Name and Purpose	Type
001	Ok	Area 1	Acuvin II
002	Ok	Circuit 21	Acuvin II
003	Ok	Zone C	Acuvin II
004	Ok	Block D	Acuvin II
005	Ok	Building 1	Acuvin II
006	Ok	Mains	Acuvin II

Click on Modbus/Log File Export section from the menu on the left.

> Download a comma delimited **.csv LOG FILE** for one Nexus 1500 meter connected to your Obvius Acquisuite. Wattics already supports the parser for EIG Nexus 1500 meter, but having a copy of the log file format used by your Obvius server will ensure that your setup uses the same configuration.

*Note: if needed, you can download [here](#) the Modbus framework for the Nexus 1500+ meter along with the custom mapping nps file.*




## Log File Export

Select a device:

Delimiter:

Quoting:

No Column Headers:

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You should now have with you:

- Your Acquisuite Server **SERIAL NUMBER**
- Your Acquisuite Server **DATA LOGGING PERIOD**

- Your Acquisuite Server **ACQUISUITE NAME**
- The **NAME AND PURPOSE** and **TYPE** of all your Nexus 1500 meter connected to your Acquisuite Server
- A number of **.csv LOG FILES** for each type of meters connected to your Acquisuite Server
- Two screenshots of the Modbus>Setup and Modbus>Device List pages

Step 3: Register your Acquisuite Server and data points with Wattics

[Register your AcquiSuite server](#)

You will need to send on the information collected in Step 1:

- *The SERIAL NUMBER of your Acquisuite Server*
- *The DATA LOGGING PERIOD of your Acquisuite Server*
- *The ACQUISUITE NAME of your Acquisuite Server*
- *Each Modbus device NAME AND PURPOSE*
- *Each Modbus device TYPE*
- *.csv LOG FILE for each Modbus*

## *device TYPE*

One of our tech support representatives will confirm your Wattics dashboard account, will set your monthly subscription fee, and will register the Acquisuite Server and your Nexus 1500 meter(s) to the dashboard.

You will then receive a **DATA UPLOAD PASSWORD** to use in Step 4 when setting up the Acquisuite Server to send log files to Wattics Dashboard.

Step 4: Configure the Acquisuite Server to transmit to Wattics

You are now ready to set up your Acquisuite Server to send data. Select the **Log File Data > Setup/Upload** menu.

- 001EC60538EF
- Security
- Modbus
- Device List
- Framework
- Alarms
- Setup
- Log File Data
- Status
- Setup / Upload
- Log File Export
- Networking
- System
- Testing / Diags

### Data Uploading

**AcquiSuite (A8810-0) Serial Number:** 001EC60538EF  
**Data Upload Status:** Next upload at Wednesday, April 12 2017 14:18:53 IST

Scheduled upload time:

Number of times to retry (on failure):

Time to wait before retry (on failure):

Upload data on alarm status change:

Upload data on low disk alarm:

Upload data on system startup:

Allow remote configuration (channel 1 only):

Upload debug information:

Note: Un-uploaded data in disabled channels will eventually be deleted.

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Upload Channel #1 is  Enabled  Disabled

Protocol:

Upload URL:

Password:

Selective Upload: Only meters:  [help](#)

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Upload Channel #2 is  Enabled  Disabled

---

Upload Channel #3 is  Enabled  Disabled

---

Upload Channel #4 is  Enabled  Disabled

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You must configure your device as follows:

- *Protocol:* You must select **OBVIUS Building Manager Online (Default)**
- *Upload URL:* This is the website URL or IP to upload data to. This should be set to **http://obvius.wattics.com/**
- *Password:* This password is used by the Wattics web server to verify the Acquisuite Server device authentication before accepting the uploaded data. You should input the **DATA UPLOAD PASSWORD** provided to you by Wattics.

Other features can be set according to your preferences, otherwise leave the default values:

- *Scheduled upload time:* This option allows you to control when the Acquisuite Server will initiate the upload process. We recommend that you set an upload time greater than the log cycle, for example 15mn if you log data every 5mn.
- *Number of times to retry:* In the event of a failure this option specifies the number of retries to attempt the upload again. If all retries fail, the Acquisuite Server will wait until the next scheduled upload time before trying again.
- *Time to wait before retry:* In the event of a failure, the Acquisuite Server can be configured to wait for a specified period of time before attempting another connection.

This option specifies how long to wait before retrying.

- *Upload data on alarm status change:* This setting will cause the Acquisuite Server to initiate the upload process if any point on any Modbus device enters or leaves an alarm state. This option can be left disabled, unless otherwise instructed.
- *Upload data on low disk alarm:* This feature will cause the Acquisuite Server to attempt a data upload immediately if the log file storage area is more than 75% full. This option can be enabled, unless otherwise instructed.
- *Allow remote Modbus device configuration:* This feature is not supported by Wattics and can be left disabled, unless otherwise instructed.

## Step 5: Start data upload

Click Apply and then the **Upload Data Now** button on the right to start data upload.

Apply Cancel

View Transfer Log Upload Data Now

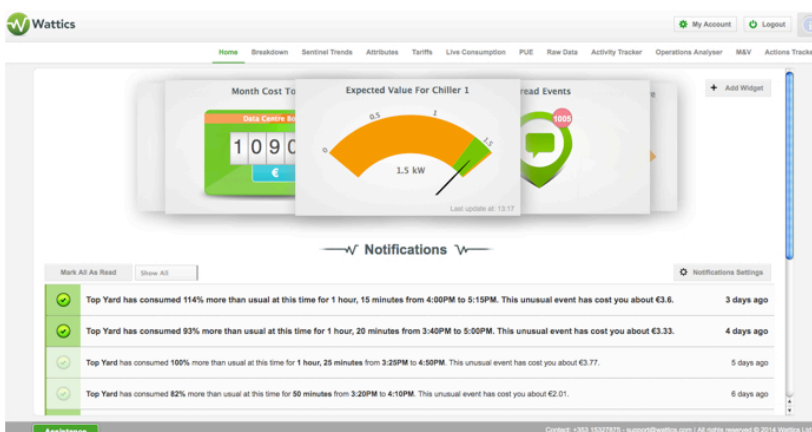


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[support@obvius.com](mailto:support@obvius.com)

Current time: Wednesday, Apr 12 2017 14:15:40 IST

Your data will be sent to Wattics, log in to your dashboard and get started!







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