

# Smart Energy Controller Lite

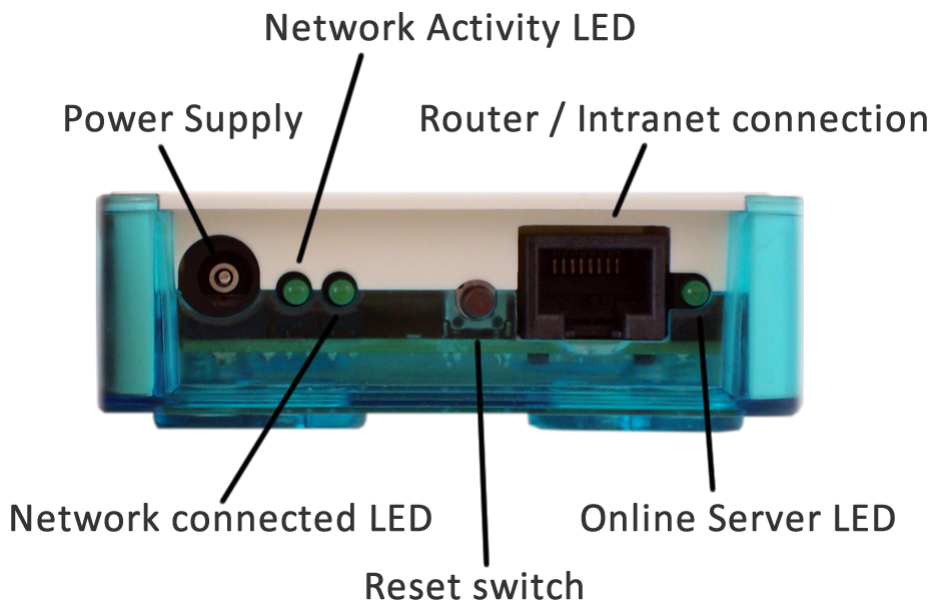
## User Instructions



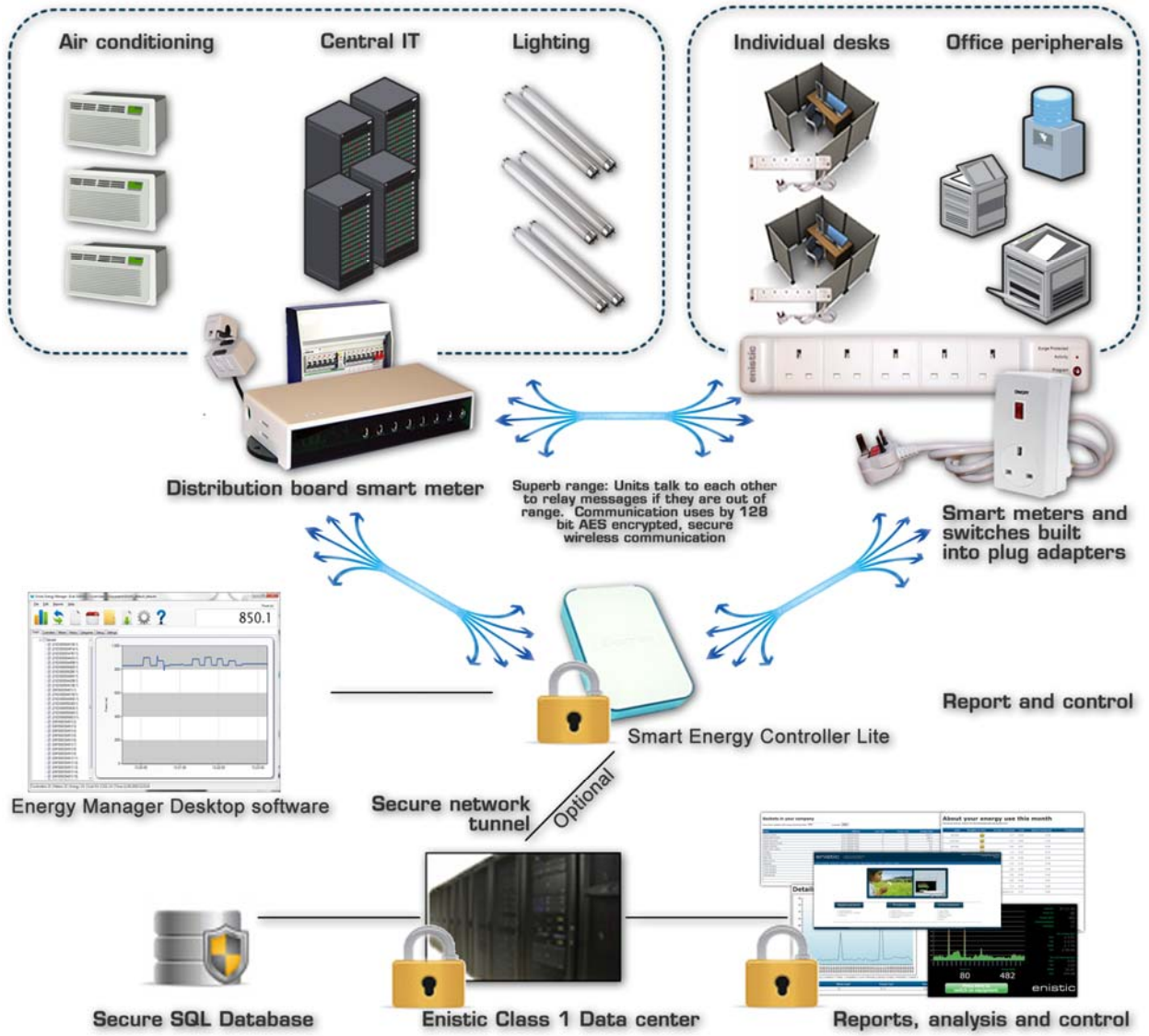
The Smart Energy Controller Lite (or "SECL") acts as master interface between the Enistic Energy Manager and other Enistic products. Simply plug the Controller onto your internal network, i.e. into a data point, router or hub and this will act as a bridge between the Enistic system and the Enistic Energy Manager.

Because Enistic is a meshing system, every module talks to every other module in order to maximise range and reliability. This means that in any office or home environment, only one Zone Controller is required for full coverage so long as every module is within 30m of any other module. If the Zone Controller cannot directly pass messages to any module on the network, the other modules in the range will "pass on" the message to ensure 100% operation.

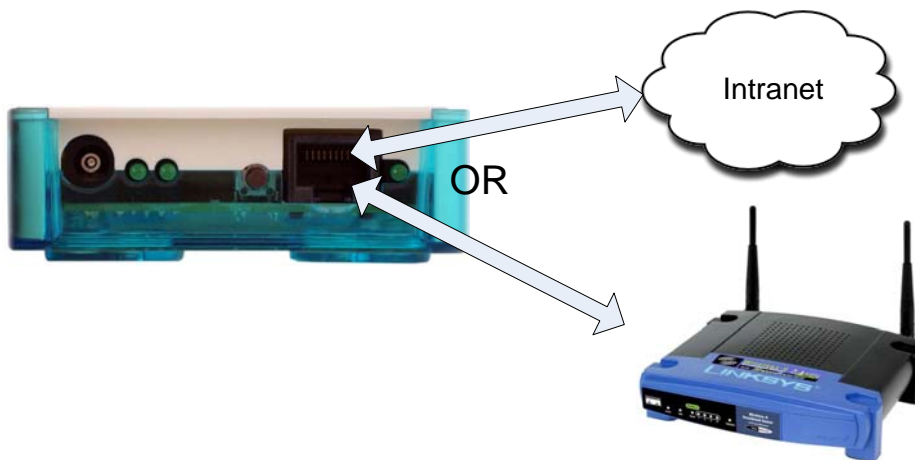
The Smart Energy Controller Lite sends information to Enistic Energy Manager (desktop or Internet versions) via TCP/IP. As such, this controller can be mounted remotely, reporting the information back to a centrally maintained server if required. This enables use in monitoring many installations using one central copy of the Energy Manager.



Function	Description
<b>Power Supply</b>	Connect the supplied power supply here.
<b>Network connected LED</b>	This LED will be illuminated if the network cable to your Intranet / Router is connected.
<b>Network Activity LED</b>	This LED flashes when there is network activity. Note that this flashes with any network activity and not just when the SECL communicates with the Energy Manager.
<b>Router / Intranet connection</b>	Plug your SECL into your broadband router, Ethernet router or Intranet connection via the supplied network cable.
<b>Reset Switch</b>	To perform a factory reset, press and hold this button for 10 seconds then release the button. Switch the SECL off and on for the reset to take effect.
<b>Online Server LED</b>	This LED flashes every time the SECL successfully communicates with the Energy Manager Online website. If you have disabled access to the online system then this LED will not flash.

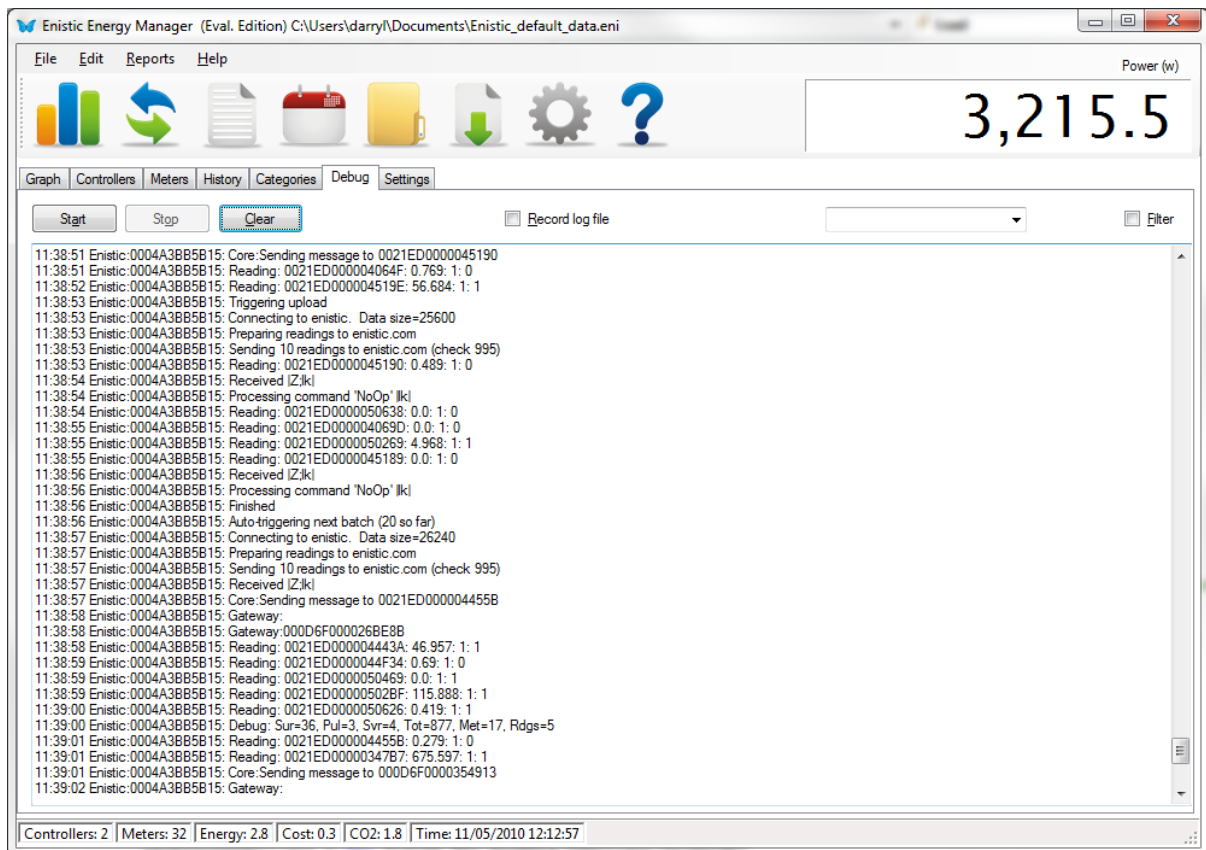


The Smart Energy Controller plugs into your broadband or your Intranet as shown below:



## Testing your Smart Energy Controller Lite

Run the Energy Manager for Desktop software. If you click on the debug tab you should see information of the kind shown below scrolling up the screen. If you don't then it generally indicates a network problem of some kind and you should refer to the troubleshooting guide below.



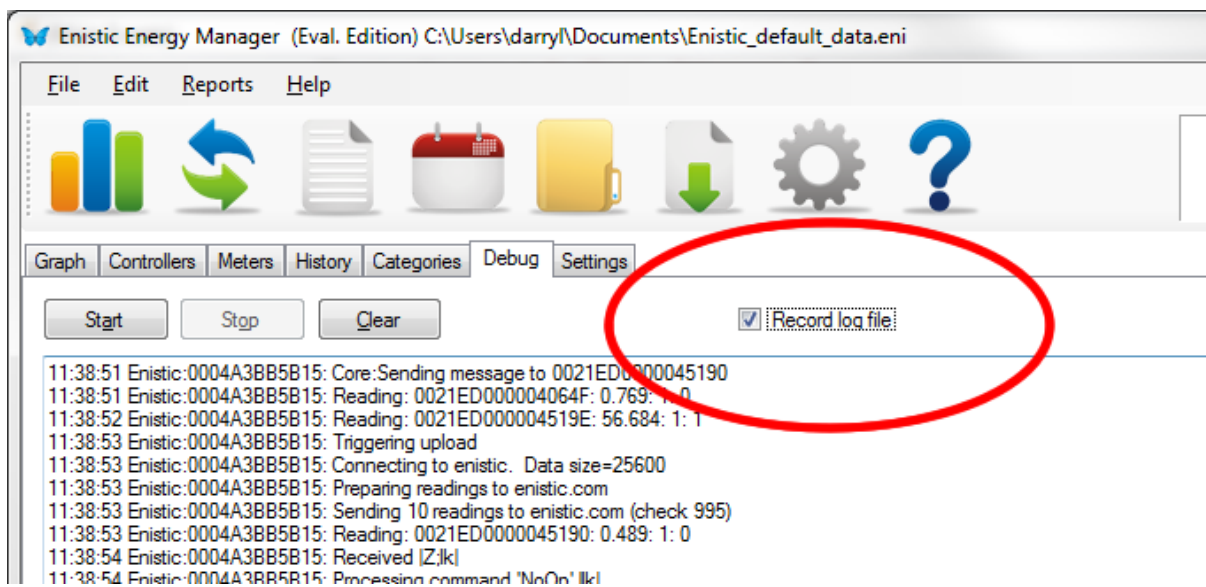
## Troubleshooting your SECL

Symptom	Possible resolution
<b>Your SECL is not appearing online</b>	<ol style="list-style-type: none"> <li>1) You have plugged the SECL into your laptop by mistake. Try removing it from your laptop and plug it into your broadband router or Intranet.</li> <li>2) You have a firewall running that is blocking the SECL communications. Try adjusting your firewall to allow outbound traffic on port 80.</li> <li>3) You have not plugged in the network cable. Try plugging in your network cable to the SECL at one end and the other into your broadband router or Intranet.</li> <li>4) Your broadband connection is not functioning. From any computer on the network try accessing the Internet to see whether you can access other sites.</li> </ol>
<b>Your SECL is not showing up in the Energy Manager Lite or Energy Manager Pro software.</b>	<p>Try going to the Debug tab. You should see information like that shown above in the “testing your SECL” section.</p> <p>If you do not see this type of information it could be because you have a firewall running that is blocking your network communication.</p> <p>Try asking your Network Administrator to unblock UDP broadcasts on port 53004 and 53005.</p> <p>If you are running a Windows firewall, try temporarily disabling the firewall and see if that fixes the problem.</p>
<b>Your SECL looks like it is working but no Smart Sockets are connecting</b>	<p>This can occur when you have set the PIN number security in your SECL. From the Energy Manager Pro software right click on the controller in the Controllers screen and choose “Clear PIN number”</p> <p>When Smart Sockets are trying to connect the LEDs on the unit flash rapidly. Once they have connected to your SECL they begin to flash once every 10 seconds.</p>
<b>There are no lights on your SECL</b>	<p>The power supply is not plugged in or the network cable is not plugged in.</p>
<b>You can see debug information on the Debug tab but you cannot get the SECL to respond to commands you send it (such as changing the reporting interval etc)</b>	<p>This can be caused by your firewall blocking communications between your computer and the SECL.</p> <p>If you are running the Energy Manager Lite / Pro on a laptop computer that is using wireless try plugging your laptop into a wired Ethernet connection and trying again.</p>

## Sending troubleshooting logs to Enistic

If you would like to send us information about your SECL to help us troubleshoot your installation then you can do so by recording a log file and then emailing it to us (see below).

To record a log file, go to the debug tab in the Energy Manager Lite / Pro and click on “Record Log File”. This records all debug activity to a file in “My Documents” called “EnisticLog.txt” which you can email to us to help us help you identify any potential problems.



## Specifications

- Power indicator
- Reset button
- RJ45 Ethernet connector
- 5V power supply (on back of unit), 300 mA

## Physical

- Operating temperatures: -50 to +75 degrees C
- Dimensions: 90 x 25 x 70 mm
- Weight: 150g
- For internal use only. Do not expose to moisture.

## Technical

- 20Mhz Dual Processor
- 256Kbit Flash Memory
- 2K RAM
- 2.4GHz ISM Band digital direct sequence spread spectrum transceiver.
- Hardware acceleration for IEEE802.15.4 operations.
- Hardware supported encryption (AES-128)
- Can be configured to act as a ZigBee coordinator, router or end device
- Up to 4dBm output power
- Sensitivity up to -98dBm (1% PER)

## Software

- Built in UDP for configuration
- Output broadcast on port 53005
- Commands accepted on port UDP 53004
- DHCP compatible
- Static IP address compatible

## Certifications

- CE certified
- Zigbee Pro network compliant (closed network mode)
- LVD certified
- WEE certified

### Getting further help

If you would like further help getting your SECL working you can either visit our forum (24 hours per day, 7 days a week)

**[www.Enistic.com/forum](http://www.Enistic.com/forum)**

Or you can contact us on:

Address: Enistic Limited, 10 Wornal Park, Worminghall, Bucks, HP18 9PH

Email: [Support@enistic.com](mailto:Support@enistic.com)

Web: [www.Enistic.com](http://www.Enistic.com)

Tel: +44 (0) 844 875 1600