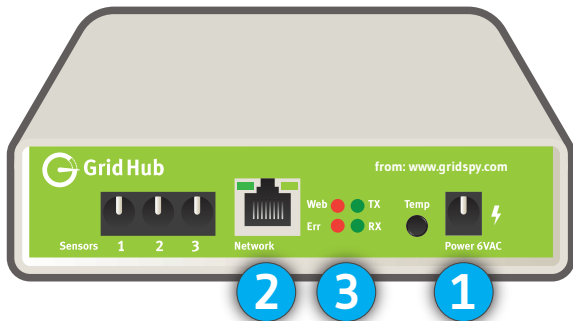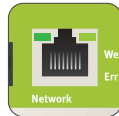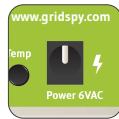# 1 GridHub

IMPORTANT - The GridHub needs:

— Permission from your IT team to reach the internet using a nearby ethernet port or a 3G kit
— Place within 100m of GridNodes. Placement in a metal box will reduce range. Aerials are available to assist.

Installation:

1 Plug the plug pack into a wall outlet and into the 6VAC input. Lights will flicker in a test pattern.

www.gridspy.com
emp
Power 6VAC

2 Connect GridHub to a wall jack or network switch using the provided network cable.

Wel
Err
Network

3 The web light will come on solid once a reliable internet connection has been established*

fror
Web ● ● TX
Err ● ● RX

4 Leave the GridHub **ON**

Grid Hub   from: www.gridspy.com
Web ● ● TX   Temp
Err ● ● RX
Sensors 1 2 3   Network   Power 6VAC
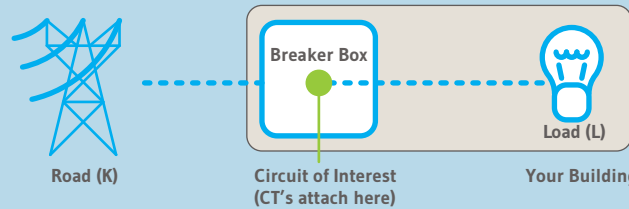
2 **3** **1**

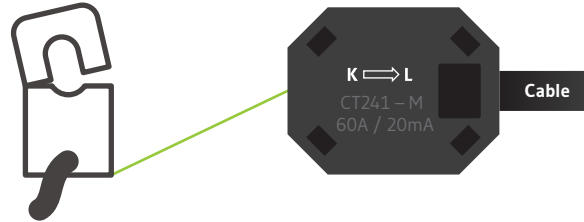*Further information - http://**gridspy.com/web**
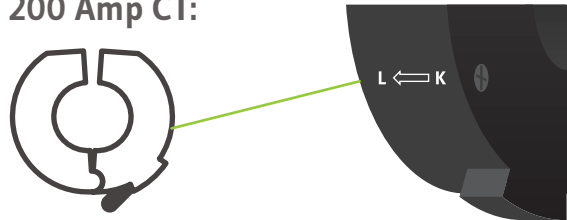
3 Current Transformers

IMPORTANT:

— The CT's should be clipped around the phase wire of the circuit of interest.
— When connecting the CT's the direction is important or you will obtain negative measurements. Each ampage of CT has its own instructions.

Breaker Box

Load (L)

Road (K)   Circuit of Interest   Your Building
                (CT's attach here)

60 Amp CT:

K ⟷ L
CT241 – M
60A / 20mA
Cable

200 Amp CT:

L ⟸ K

400 Amp CT:

MAGNELAB
400 Amp To 0.33 Volt
This side towards source (K)

4 GridNodes

Installation for each GridNode:

1 Mount the GridNode near the installed CTs. Consider both the CTs cable and the radio range (see GridHub instructions).

2 Mount the 6VAC power supply and plug into both the GridNode and the wall outlet.

3 Plug the CT cables into the GridNode inputs, keeping note of the input number you use for each.

1 2 3

Information

If your building has a 3-phase supply, its best if you plug phases L1, L2 & L3 into inputs 1, 2 & 3 or 4, 5 & 6.

GridNode
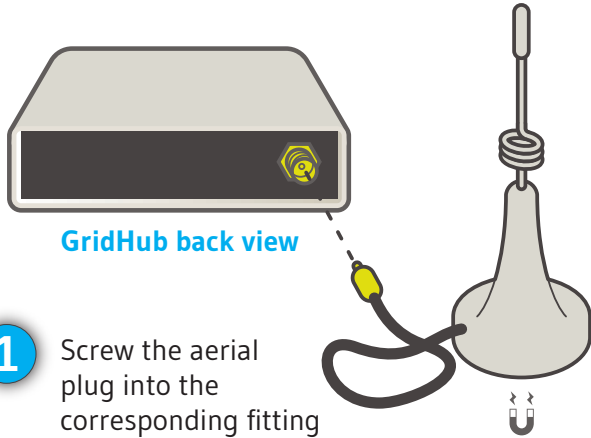
Example   Breaker Box

1 2 3 4 5 6

CT

L1
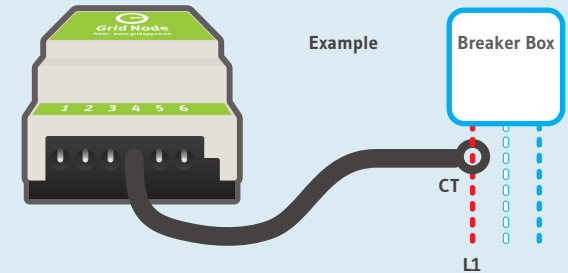
4 30 seconds after powerup the 'RX' light will flash to show the GridHub gathering data from the GridNode. GridNode and live input readings will now be visible online.
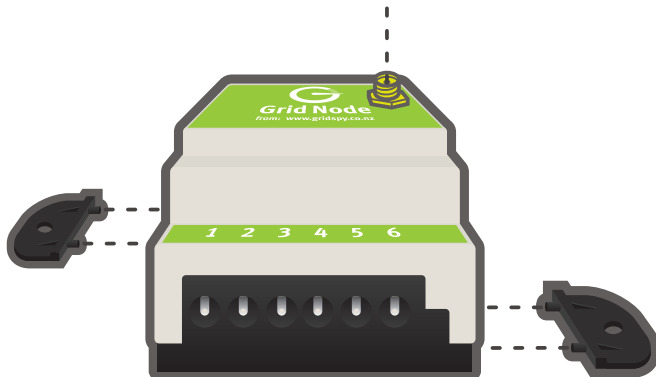
RX TX Err

After installation
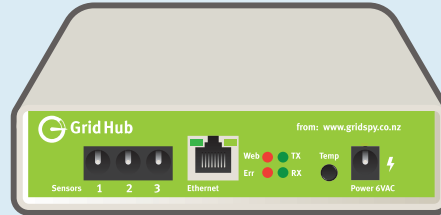
Go to http://**gridspy.com/new** in your browser

GridHub back view

1 Screw the aerial plug into the corresponding fitting on the back of the GridHub. Tightening with fingers is sufficient.

2 Make sure the aerial stand is on a flat surface and as free of obstacles as possible. Aerial has a magnet, so it will attach to metal surfaces.

3 If your kit comes with additional aerials for the GridNodes attach them in an identical manner. GridHub will now be visible online.

4 GridNodes come with wall-mounting feet that you can use as an alternative to DIN Rail. Push feet in and then mount as desired with screws (not provided).
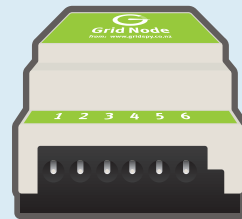

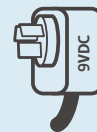# Your kit contains the following items

GridHubs

Grid Hub — from: www.gridspy.co.nz
Sensors 1 2 3   Ethernet   Web TX   Temp   Power 6VAC
Err RX

GridNodes

Grid Node — from: www.gridspy.co.nz
1 2 3 4 5 6

Current Transformers

Power supplies   ## Aerials

6VAC   9VDC

for GridNode   **for GridHub**
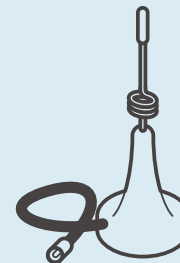
Depending on your kit configuration some items may not be included

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Manage your energy

Welcome

Setting up your GridSpy Monitoring System