

ANDERSEN A2

Basic Solar Charging Smart Energy Management

| Installation Guide

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Andersen-EV

Telephone: +44 (0)20 3890 4510

Email: contact@andersen-ev.com

Website: www.andersen-ev.com

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REVISION HISTORY

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Introduction

Andersen chargepoints operate by default as a conventional electric vehicle charger. Andersen chargepoints are also compatible with the Konnect Solar charging feature.

The solar feature is for customers with micro-generation system which may wish to charge their vehicle in proportion with the surplus energy generated by the solar system. This reduces their demand on the national grid and reduces charging costs.

The Basic Solar feature is supported via the use of a grid CT Clamp between the grid and the home.

Installation

The Basic Solar feature will give the customer a simple breakdown of the movement of energy between their generation system, grid and vehicle via the use of a singular, grid CT Clamp.

This installation manual applies to A2 chargepoints installed after May 2020 with a Thurlstone revision board installed. Please contact support for model installed before this date.

Grid CT Clamp Sensor

This is installed around the live mains input supply, close to the domestic energy meter (Fig:1).

A twisted pair shielded signal cable should be used to connect the CT clamp to the Andersen chargepoint (Fig:2). The cable length between the CT clamp and chargepoint should not exceed 30 meters.

This can be purchased from Andersen EV.

This CT clamp is specifically calibrated for use with the A2 unit.

No other CT clamp model is supported for the adaptive fuse feature

Please ensure the CT Clamp is installed the correct way round i.e. not recording negative kW.

Should you see a negative reading confirm this is solar surplus (export) by turning off the solar and following the test procedure.

Installation

Fig 1

Grid sensor CT clamp installed around live wire. This monitors the total building power usage and surplus energy.

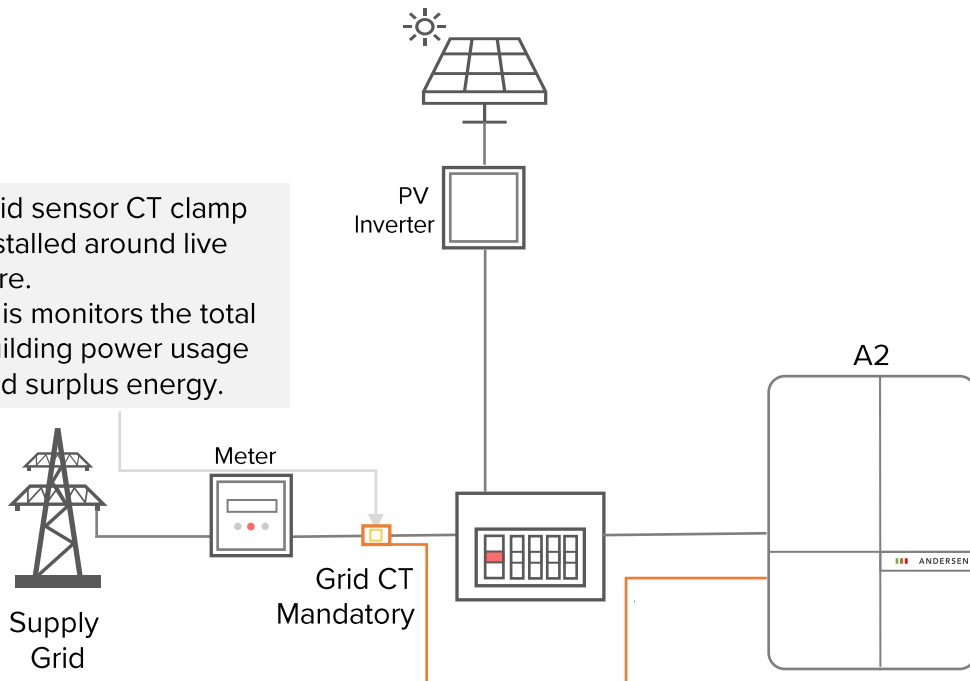
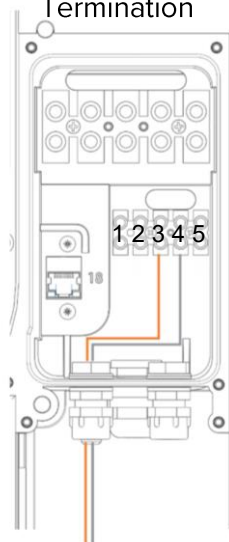


Fig:2 Grid CT Termination

The CT signal cable is terminated in the Andersen A2 unit cable entry area. See **Fig:2**

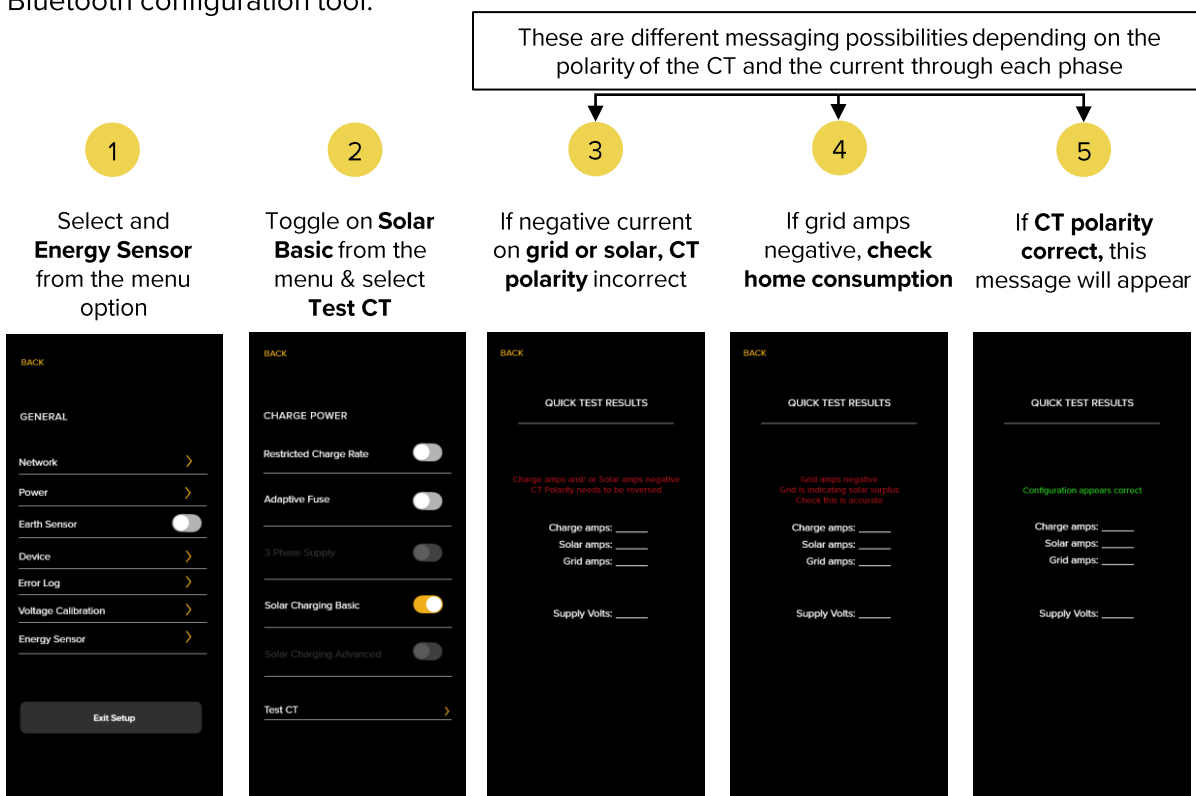


Arrow on CT clamp should face away from meter and towards all loads i.e. fuse board.
Wiring- White to terminal 3 and black to terminal 4.
Confirm configuration using the CT Test in the installer toolbox.

Configuration

To use the solar charge function changes must be made to the A2 units firmware setup configuration.

The configuration changes are made using the Andersen Connect + app installer Bluetooth configuration tool.



Test Procedure - Using the CT test in the installer toolbox, compare the value shown to a clamp meter on the supply. Should you suspect solar surplus, turn off the solar supply and compare again.

The CT test should now show **Configuration appears correct**.



The Solar Energy option will only appear in the customers Connect + app if the solar option is set to enable in the Connect app installer tool.