

Addendum 1 – Importing data from a Recon T survey

From ProPower 3 version 3.7.1.1 onwards it is possible to use the ProPower 3 software to analyse data from a survey performed using the Cesinel Recon T Energy Monitor.

There are however specific requirements that must be followed in order to make this possible.

Step 1 - Export Data from MedcalScope

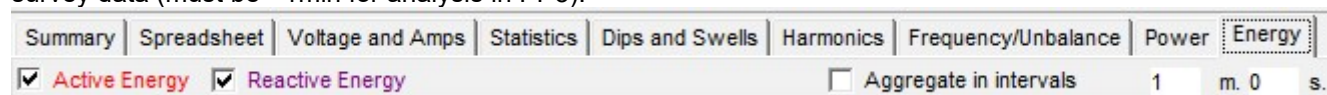
After completing a survey with the Recon T, data must be downloaded from it using the associated MedcalScope software. Please refer to Cesinel documentation for complete information on this.

a) Once the downloaded survey data is open within the MedcalScope software, the date range on view should be set to suit the data that you wish to analyse within PP3.

(N.B. when downloading data from a Recon T, the MedcalScope software retrieves all data within the hardware memory. If the Recon T memory is not cleared between surveys this will therefore include data across multiple possibly unrelated surveys):



b) Still within MedcalScope, select the *Energy* tab and ensure that the **Active Energy & Reactive Energy** tick boxes are ticked, that the **Aggregate in intervals** tick box is unticked, and that the interval is set as appropriate for the survey data (must be >1min for analysis in PP3).



c) Within MedcalScope select *Export data* from the *File* menu.

Within the Data export configuration window use the following settings:

Include standard header: **Unticked**

Decimal separator: **'Point'**.

Selected values/tick boxes:

U: RMS Voltage

I: RMS current

PF: Power Factor

Ea: Active Energy

Er: reactive energy

avg

L1

L2

L3

All other tick box options should be unticked. (see screen shot on next page)

Data export configuration

Magnitudes to export

☐ Include standard header

☐ Auto export with Save File

Decimal separator

☐ Auto ☒ Point ☐ Comma

Check All Reset All

☒ U: RMS voltage

☒ I: RMS Current

☐ Ucom: RMS complementary voltage

☐ f: Fundamental frequency

☐ Unb: Voltage unbalance

☐ UTHD: Voltage total harmonic distortion

☐ ITHD: Current total harmonic distortion

☐ Uh: Voltage harmonics

☐ Ih: Current harmonics

☐ P: Active power

☐ Q: Reactive power

☐ S: Apparent power

☒ PF: Power factor

☐ CP: Cosinus Phi

☐ Pst: Flicker short term

☐ Plt: Flicker long term

☒ Ea: Active Energy

☒ Er: Reactive Energy

☐ min

☒ avg

☐ max

☒ L1 / L1L2 / L1a

☒ L2 / L2L3 / L1b

☒ L3 / L3L1 / L1c

☐ N / Total / L1d

Column	Magnitude
1	Date
2	Time
3	U avg L1
4	U avg L2
5	U avg L3
6	I avg L1
7	I avg L2
8	I avg L3
9	P.F. avg L1
10	P.F. avg L2
11	P.F. avg L3
12	Active Energy L1
13	Active Energy L2
14	Active Energy L3
15	Reactive Energy L1
16	Reactive Energy L2
17	Reactive Energy L3

Cancel OK

d) Once the appropriate options have been selected, click the **OK** button on the *Data export configuration* window. Then browse to the place in which you wish to save the exported data file and give the file a suitable File name.

In the *Save as type*: option select *Text file, comma separated values*:

Save As

Save in: Desktop

Quick access

Desktop

Libraries

This PC

Network

Name

Size

Item type

Network

Libraries

This PC

Access the computers and devices that are on your network

File name: Example.csv

Save as type: Text file, comma separated values

Save Cancel

e) Save the file and close MedcalScope.

Step 2 – Load Exported Data into PP3

The file exported from MedcalScope can then be loaded into PP3:

a) After opening PP3, select the exported Recon T data and **tick the Recon T Data tick box** before clicking **Load Data**:

(Single Phase Survey should be ticked if appropriate)

Select Data File, Title & Multiplier...

Set Data File Path

Set Survey Title

☐ Single Phase Survey ☒ Recon T Data

Data Multiplier:

...OR Connect to Profile...

The full range of PP3 analysis tools are then available (depending upon survey specifics):

ProPower 3

File Summary Data Reports Help

Start 09/01/2024 11:50:00 End 22/01/2024 12:40:00

Profile Energy Survey Summary Report
Recon T Energy Survey: Example.csv
Start: 09/01/2024 11:50:00 End: 22/01/2024 12:40:00

Consumption	kWh	kVAh	kVArh	Current (Amps)	Phase 1	Phase 2	Phase 3
Total for Survey Period	54.98	133.48	-103.54	Peak Period Amps	15.63	0.00	0.00
Night Time Consumption	8.35	32.21	-31.03	Min Period Amps	1.51	0.00	0.00
Day Time Consumption	46.62	101.27	-72.51	Ave Period Amps	2.03	0.00	0.00
Average Weekday	4.84	10.04	-7.11	Power Factor			
Average Sunday	1.53	8.25	-8.11	Peak Period PF	1.00	0.00	0.00
Average Saturday	1.76	8.30	-8.10	Min Period PF	0.17	0.00	0.00
Projected (30 day) Month	117.81	286.03	-221.86				
Projected Year	1,433.30	3,480.07	-2,699.33				

Period Demand (3 Phase)	kW	kVA	kVAr	PF	Phase Balance			
Peak Period Demand	2.62	2.68	0.26	1.00	Average kW	100.00%	0.00%	0.00%
Min Period Demand	0.05	0.31	-0.59	0.17	Average kVA	100.00%	0.00%	0.00%
Ave Period Demand	0.18	0.43	-0.33	0.28	Average kVAr	100.00%	-0.00%	-0.00%
					Average Amps	100.00%	0.00%	0.00%

Voltage (Volts)				Pulse Inputs			
Peak Period Voltage	244.4	Lowest Period Voltage	230.0	Pulse Input 1 Total	0	Pulse Input 2 Total	0

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The ProPower 3 software was written in B4J - <https://www.b4x.com>.

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For information of further systems designed to assist you to use your resources more efficiently please contact NewFound Energy Limited on +44(0)1260 290151 or e-mail us or visit our website.

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