



Powerstudio Software V 2.7

Powerstudio V2.7 software is a Windows based system used to trend National & Circutor meters' (having Modbus communications) energy usage and power quality parameters (depending on type) with the ability to display real time values and historical usage, by either graph or text data. Meter files can be exported to ".txt" format which can be opened and manipulated by Excel, for customized reporting. Meters can communicate with Powerstudio via hard wire or TCPIP communications through the use of virtual comm. ports either directly or through Ethernet converters. Powerstudio can be turned into a PC based web server for off-site communications.



The screenshot displays the Powerstudio software interface within a web browser. The main window shows real-time data for three phases (L1, L2, L3) across various parameters:

Parameter	L1	L2	L3	III
Voltage	230.0	230.4	229.4	
Phase-neutral (V)	390.0	387.1	396.9	
Phase-phase (V)	1.2	1.4	1.5	
Frequency (Hz)	50.0			

Power Quality Parameters:

Parameter	L1	L2	L3	III
Active (kW)	40.5	48.7	38.1	118.2
Capacitive (kvarC)	0.0	0.0	0.0	1.2
Inductive (kvarL)	6.1	5.5	0.0	11.0
Apparent (kVA)	41.1	41.1	38.4	119.3
Power factor	0.98	0.98	0.99	

Digital outputs are shown as 'Opened'.

Energy usage summary:

- Active (kWh): 401,359.470
- Capacitive (kvarCh): 72,793.879
- Inductive (kvarLh): 36,697.456

The bottom section of the interface features a graph showing current and active power over time, with a table of historical data below it:

Date/Time	MAIN.Voltage L2 (V)	MAIN.Voltage L3 (V)	MAIN.Voltage L1 (V)	MAIN.Frequency (Hz)	MAIN.Current L1 (A)	MAIN.Current L2 (A)	MAIN.Current L3 (A)	MAIN.Active (kW)	MAIN.Capacitive (kvarC)	MAIN.Inductive (kvarL)	MAIN.Apparent (kVA)	MAIN.Power factor
Monday 16 00:00:00	400.8	399.3	399.0	50.0	224.4	235.6	237.2	51.1	54.2	54.1	0.98	0.98
Monday 16 00:30:00	401.6	400.2	399.5	50.0	254.3	247.2	251.8	58.2	57.0	57.5	0.98	0.99
Monday 16 01:00:00	402.8	401.5	400.8	50.0	277.0	279.0	277.1	63.6	64.7	63.8	0.98	0.98
Monday 16 01:30:00	404.2	402.5	402.0	50.0	309.8	303.7	312.4	71.5	70.7	72.2	0.98	0.99
Monday 16 02:00:00	402.9	401.5	401.0	50.0	353.9	348.0	356.3	81.7	80.4	82.3	0.98	0.99
Monday 16 02:30:00	403.2	401.7	401.1	50.0	361.9	357.4	361.9	83.6	83.2	83.5	0.98	0.99
Monday 16 03:00:00	402.7	401.3	400.7	50.0	374.3	373.3	372.9	85.4	86.8	86.1	0.98	0.98
Monday 16 03:30:00	403.7	402.2	401.9	50.0	390.5	388.6	383.4	90.4	90.6	88.7	0.98	0.99
Monday 16 04:00:00	402.7	401.4	400.8	50.0	385.0	381.8	380.3	88.9	88.8	87.8	0.98	0.99
Monday 16 04:30:00	401.9	400.6	399.9	50.0	390.7	386.5	387.8	89.7	89.9	89.3	0.98	0.99
Monday 16 05:00:00	401.9	400.7	400.2	50.0	397.5	393.2	393.8	91.7	91.3	90.8	0.98	0.99
Monday 16 05:30:00	402.5	401.3	400.5	50.0	398.0	397.8	396.3	91.6	92.4	91.4	0.98	1.00
Monday 16 06:00:00	403.7	402.5	401.8	50.0	412.4	414.9	411.4	95.4	96.8	95.3	0.98	0.99
Monday 16 06:30:00	403.8	402.9	402.2	50.0	419.7	433.1	417.2	97.3	101.2	96.7	0.98	0.99
Monday 16 07:00:00	402.7	401.6	401.0	50.0	405.3	401.7	387.1	93.6	93.5	89.4	0.98	0.98