



PowerGraph gives you the tools to optimise the costs of electricity in accordance with Rational Energy Use.

The system monitors automatically and continuously the general power consumption (kW), switches on or off certain electricity users during short periods, and allows you to manage your energieflow easily and clearly structured.

PowerGraph has 8 measuring and 4 calculated inputs that count outputpulses from electricity, gas and water counters. All measuring inputs can be individually chosen to be digital(puls) or analogue (0..10v or 4..20mA)

There is an input for synchronisation with the electricity counter.

There are 8 extra inputs for 'batch registration' : the system logs all measuring inputs from start till end during activation of the batch-input. This is usefull when relating energy measurements to different products on the same production line.

Finally there is another input (hard- or software) that determines an expensive periode during the day.

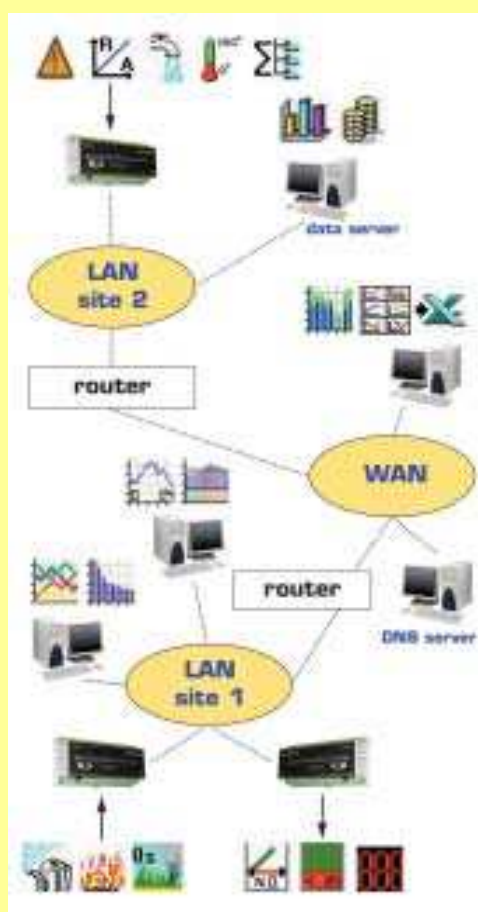
Communication is possible by ethernet (16 users at the time) and communicates with our energymeter **pSens** by network, without IP-adres.

CAN-bus allows to develop future requirements.

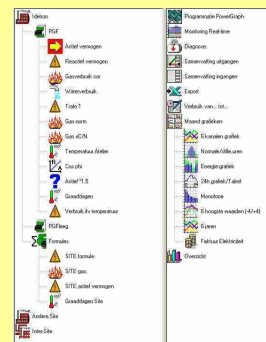
PowerGraph even calculates a 'now'-value. It is based on the time between the last 5 input pulses, which gives an indication of the power at this moment, and not integrated over 15 minutes. It has a similar result as current transformers.

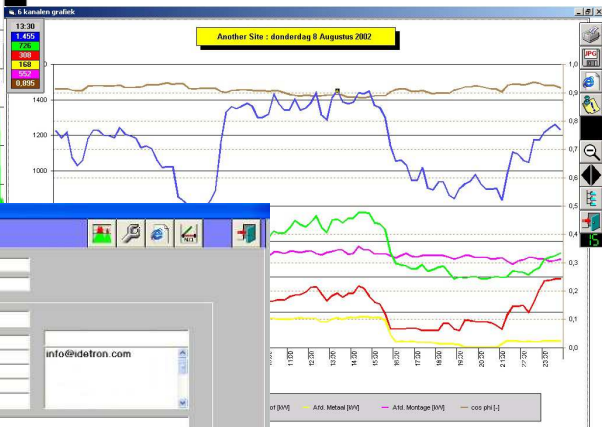
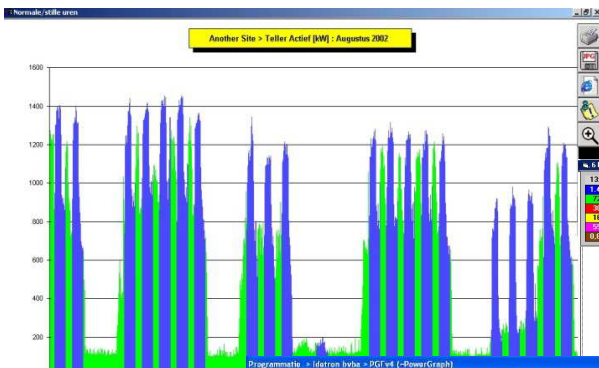
PowerGraph functions completely stand-alone, saves 15-minutes values internally during 50 years(!), is delivered with the user-friendly and universal software package **WinWatt** for Windows 2000, XP, 7 en 8, that can manage several systems.

With **PowerGraph** and **WinWatt** you have very performant tools at your disposal. These tools allow you to manage your installation to the best, with lots of clear information and overviews.



MultiSite
All your sites or production units managed in one point by **WinWatt**



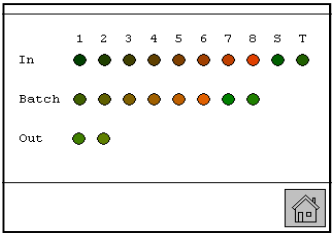
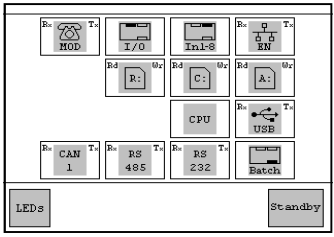
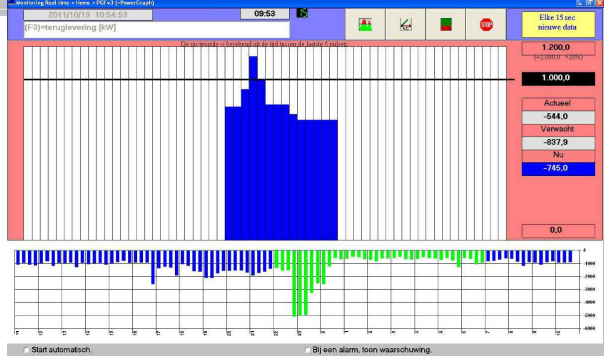


Mail server IPA: 212.71.0.16
 E-mail on list of pulses to: info@deltron.com
 Other E-mail events:
 - Batch
 - Alarm

To: info@deltron.com
 Subject: 456789
 Body: bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb
 met een xxxxxxxxxxxxxxxxxxxxxxxx tussendoor

Datum/Tijd: 08 / 12 / 23 20 : 54 : 45

	Puls verhouding	Actueel	Verwacht	Nu	Maximum van deze maand
	4mA	20mA	Gemiddeld	Minimum	Maximum
Actief vermogen [kW]	1 / 1 [..h]	1.140	1.754	1.635	2000 2000 0
Reactief vermogen [kVar]	1 / 1 [..h]	0.0	0.0	0.0	3536 6176 0
Gasverbruik cor [m³]	1 / 1	1593.0	1.734.8	1.634.9	3000 3000 0
Waternverbruik [m³]	1 / 1	0.0	0.0	0.0	500 0 0
Trafo 1 [kW]	1 / 1 [..h]	0	0	0	0 0 0
Gas norm [m³]	1 / 1	0.0	0.0	0.0	0 0 0
Gas xC/N [m³]	1 / 1	0.0	0.0	0.0	0 0 0
Temperatuur Atelier [°C]	-10 / 30	11.90	11.78	12.05	15 15 0



Actief vermogen [kW]

	Normaal	Stil	Duur
Januari	2000	2000	0
Februari	2000	2000	0
Maart	2000	2000	0
April	2000	2000	0
Mei	2000	2000	0
Juni	2000	2000	0
Juli	2000	2000	0
Augustus	2000	2000	0
September	2000	2000	0
Oktober	2000	2000	0
November	2000	2000	0
December	2000	2000	0

No pulse timeout (1d=1440min): 2000

System	PowerGraph V3	PowerGraph V4
Number of measuring inputs, optical isolated	8 digital	8 digital/0..10V/4..20mA
Batch inputs	no	8
3 Tarifs : normal, silent and special. Choice of special hours by	Hardware/software	Hardware/software
External synchronisation	Every 1-3-5-10-15-30-60"	Every 1-3-5-10-15-30-60" Even by internet
Color display with touchscreen	no	70x55mm
Power Supply	9-33VDC or 11-25VAC	9-33VDC or 11-25VAC
Interval length	1-3-5-10-15-30-60"	1-3-5-10-15-30-60"
Memory	85 days	100 year (4GB)
Communication	RS232/485	RS232/485
Ethernet	10MB	2 x 100MB
CAN-bus	no	yes
Directly with pSens	no	yes
Digital outputs as option in WinWatt (hardware ready)	2 times 8 relais	16 relais via CANbus modules
Analogue outputs as option in WinWatt (hardware ready)	1 time 2 (4..20 mA)	no