

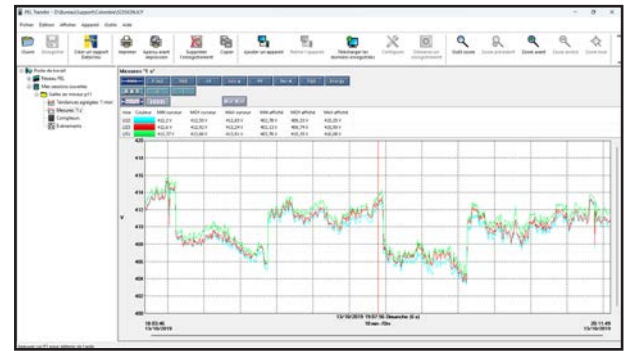
PEL Transfer software

This application software can be used to set up the **PEL 110s** and process the **energies**.

A **mathematical algorithm** applied to the **power measurement** campaigns automatically provides a breakdown of all the energy values, highlighting any **losses detected**.

Users have everything they need to rank the priorities of their operations.

Energy consumption reports can be generated very simply.



Monitor your electricity consumption in real time or periodically

Android application

Use the Android application to view your PEL's connection to the electrical network



Verification of the connections before starting to record



Download of the measurements recorded in the PELs



Display of the results of the various measurements and analyses

- **Useful energy**
- **Unbalance active energy**
- **Harmonic active energy**
- **Non-active energy**
- **Reactive energy**
- **Distorting energy**
- **Apparent energy**



NETWORK COMMUNICATION

The PELs are equipped with a wide range of wired and wireless communication possibilities. The free PEL Transfer software interface allows you to monitor the data on a PC in real time.

Ethernet

When possible, the PELs can be connected together via an Ethernet-type wired link. The PEL Transfer software then takes control of all the instruments connected. The Ethernet link can be used at the same time as Wifi connections.

WiFi

The PELs offer 2 Wifi operating modes. They can be connected to the company's IT network via a server. They can also be addressed directly by a PC or smartphone.

IRD DataView® Synch

A secure server is provided so that you can view your data from anywhere in the world.

USB

USB connections can be used to configure or download the data, as well as to take control of an instrument whatever the circumstances.



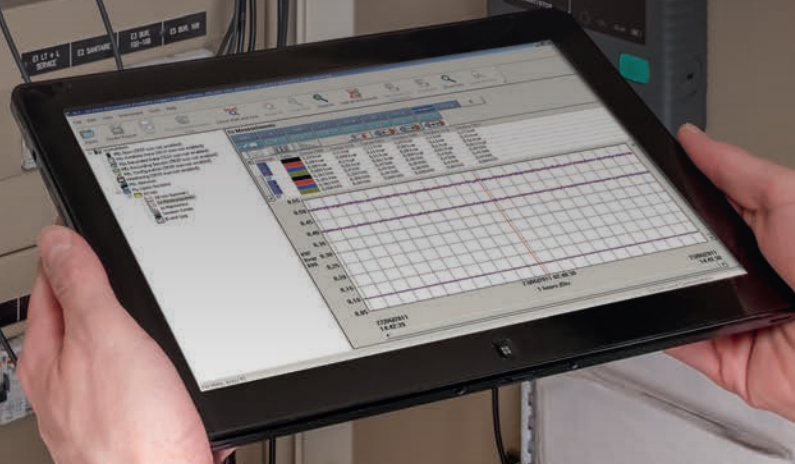
With wired or Wifi connections, it is possible to monitor or recover the data from several PELs connected to the same network



PEL Transfer software



With PEL Transfer, you obtain the value of your electricity consumption in the local currency (€, £, \$, etc. - 8 tariff ranges).



Current sensors compatible with the PEL models



Model	MN93	MN93A	MINI94	MA194-250 MA194-350 MA194-1000	PAC93	A193-450	A193-800	C193	E94	J93	MA196*	A196-610*
References	P01120425B	P01120434B	P01106194	P01120593 P01120592 P01120594	P01120079B	P01120526B	P01120531B	P01120323B	P01120044	P01120110	P01120568	P01120554
Measurement range	500 mA to 200 Aac	0,005 Aac to 5 Aac 0,2 Aac to 100 Aac	50 mA to 200 Aac	200mA to 10kAac	1 A to 1000 Aac 1 A to 1300 Aac	200 mA to 10 kAac	200 mA to 10 kAac	1 A to 1000 Aac	100 mA to 10 Aac/dc 100 mA to 100 Aac/dc	50 A to 3500 Aac 50 A to 5000 Aac	200 mA to 10 kAac	200 mA to 10 kAac
Clamping Ø / length (mm)	Ø 20	Ø 20	Ø 16	Ø 70/250 Ø 100/350 Ø 300/1000	1 x Ø 39 2 x Ø 25	Ø 140 / 450	Ø 250 / 800	Ø 52	Ø 11.8	Ø 72	Ø 100 / 350	Ø 190 / 610
IEC 61010	600 V CAT III / 300 V CAT IV		IEC 61010 600 V CAT III / 300 V CAT IV	1000 V CAT III / 600 V CAT IV	600 V CAT III / 300 V CAT IV	1000 V CAT III / 600 V CAT IV		600 V CAT IV	600 V CAT III / 300 V CAT IV	600 V CAT III / 300 V CAT IV	1000 V CAT III / 600 V CAT IV	1000 V CAT III / 600 V CAT IV

*PEL115

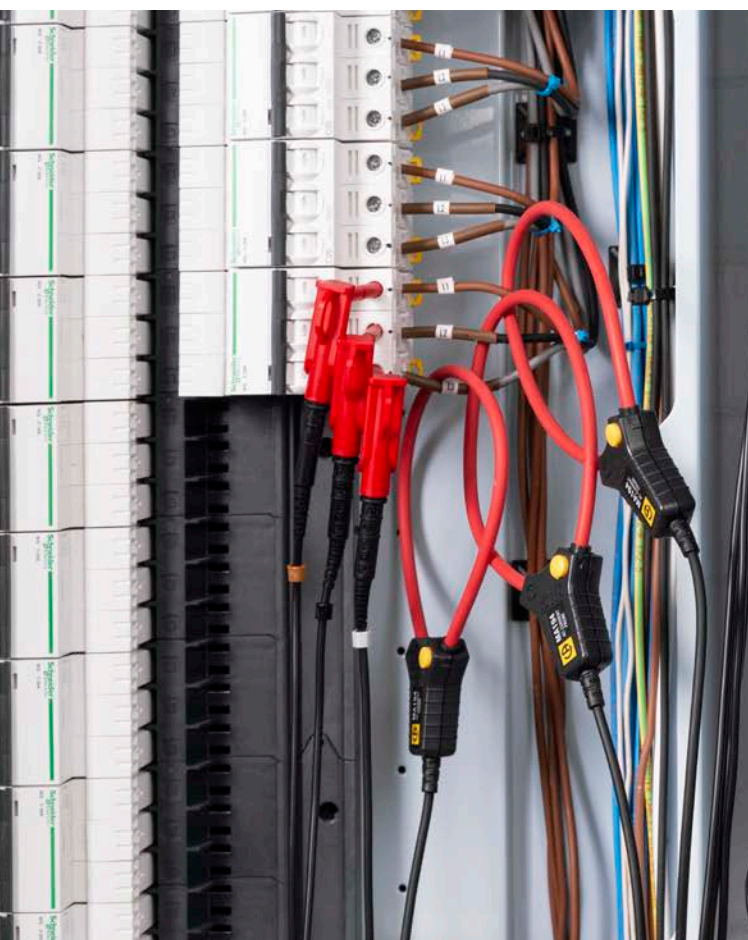
Other accessories

BB196 cables kit (x 5), IP67.....	P01295479
Mains power cable.....	P01295174
PEL mains adapter.....	P01102204B
Cables/clips kit (x4).....	P01295476
Set of inserts/rings.....	P01102080
5 A adapter.....	P01101959
DataView® Software.....	P01102095
No. 23 Bag.....	P01298078
Pole mounting kit.....	P01102146



References : P01102204B

For long-term campaigns, the mains adapter for self-powering the PEL is ideal



TECHNICAL SPECIFICATIONS

Models	PEL 112	PEL 113	PEL 115
Display	None	Quadruple digital display	
Types of installations	Single-phase, split-phase, three-phase with or without neutral, and many other specific configurations		
Number of channels	3 voltage inputs, 3 current inputs (neutral current calculated)		4 voltage inputs, 4 current inputs
Measurements			
Network frequencies	DC, 50 Hz, 60 Hz and 400 Hz		
Voltage (measurement ranges)	10.00 - 1,000 Vac / 100.00 – 1,000 Vdc		
Current (see previous page)	5 mAac to 10 kAac / 50 mAdc to 5 kAdc		
Calculated measurements			
Ratio	Up to 650,000 V / up to 25,000 A		
Power (P, P _r , P ⁺ , P _{unb} , Q _r , N, D, S)	10 W to 10 GW / 10 var to 10 Gvar / 10 VA to 10 GVA		
Energy	Up to 4 EWh / 4 EVAh / 4 Evarh (E = 10 ¹⁸)		
Phase	cos φ, tan Φ, PF		
Harmonics	THD		
Additional functions			
Phase order	Yes		
Min / Max	Yes		
Alarm	Yes		
Mounting	Magnet		Hook (Opt.)
Recording			
Acquisition rate / Aggregation period	5 measurements/s - 1 min to 60 min		
Data storage	SD card, 8 GB (up to 32 GB on SD-HC card)		
Communication	USB, Ethernet, Wifi (Access point and Hotspot), IRD Server DataView® Synch		
Power supply	110 V - 250 V (+10 %, -15 %) at 50-60 Hz & 400 Hz		Powered by the phase – 1,000 V AC/DC
Safety	IEC 61010 600 V CAT IV and 1000 V CAT III		IEC 61010 1000 V CAT IV
Mechanical specifications			
Dimensions	256 x 125 x 37 mm without sensor		245 x 270 x 180 mm without sensor
Weight	900 g	950 g	<3400 g
Casing	IP54		IP67
Operating temperatures	-20 °C to +50 °C	0 °C to +50 °C	-20°C to +50 °C

STATE AT DELIVERY:

A PEL 112 OR PEL 113 IS DELIVERED WITH:

1 carrying bag, 4 voltage cables, 4 crocodile clips, 1 set of inserts/rings, 1 SD card, 1 SD Card-USB adapter, 1 USB cable, PEL TRANSFER PC software & User's Manual downloadable from our website, 1 Quick Start Guide.

A PEL 115 IS DELIVERED WITH:

1 bag for the accessories, 5 x IP67 voltage cables, 5 lockable crocodile clips, 1 set of inserts/rings, 1 SD card, 1 SD Card-USB adapter, 1 USB cable, PEL TRANSFER PC software & User's Manual downloadable from our website, 1 Quick Start Guide.

REFERENCES TO ORDER:

PEL 112 without current sensors **P01157156**
 PEL 113 without current sensors **P01157157**
 PEL113 with MA194-350 sensors and adapter..... **P01300003**
 PEL 115 without current sensors **P01157169**



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