

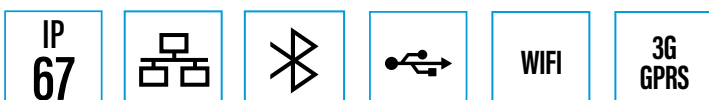
PEL 100 SERIES

Power and energy loggers, simultaneously



PEL100, the loggers for efficient consumption!

- Ideal for all types of electrical cabinets and Low Voltage installations
- Implementation without cutting off the main power supply
- Recording duration up to several months or years
- Breakdown of energy losses
- Characterization of electric motors



Measure up



PEL Transfer software

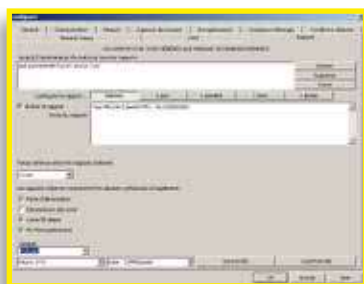
This application software lets you:

- Configure the PEL100
- Check the connections before starting to record
- Download the measurements recorded in the PEL100
- View the various measurement results and analyses

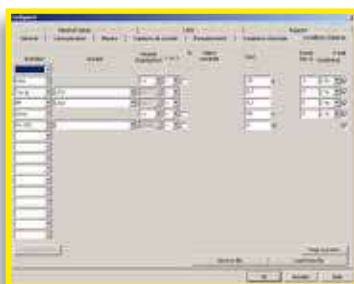
With the comprehensive DataView® processing software, it is also possible to create certified or customized reports.

In this way, DataView® helps you to generate your energy consumption reports more easily.

Our PEL Transfer software performs mathematical processing on the power measurement campaigns and automatically breaks down all the losses detected.



Configuration of alarms



Configuration of L452 loggers



Configuration of IRD Server

Current sensors compatible with the PEL 100 models



Model	MN93	MN 93A	MA194-250 MA194-350 MA194-1000	E3N	PAC93	A193-450	A193-800	C193	J93	MA196	A196-610
Measurement range	500 mA to 200 A AC	0,005 A AC to 100 A AC	200mA to 10kA AC	50 mA to 10 A AC/DC 100 mA to 100 A AC/DC	1 A to 1000 A AC 1 A to 1300 A DC	200 mA to 10 kA AC	200 mA to 10 kA AC	1 A to 1000 A AC	50 A to 3500 A AC 50 A to 5000 A DC	100 mA to 10 kA AC	100 mA to 10 kA AC
Clamping Ø / length	20 mm	20 mm	Ø 250 / 350 / 1000 mm	11.8 mm	1 x Ø 39 mm 2 x Ø 25 mm	Ø 140 mm / 450 mm	Ø 250 mm / 800 mm	52 mm	72 mm	Ø 100 mm / 350 mm	Ø 190mm / 610mm
IEC 61010	600 V CAT III / 300 V CAT IV		1000V CAT III / 600V 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		600 V CAT IV	600 V CAT III / 1000 V CAT IV	1000 V CAT III / 600 V CAT IV	1000 V CAT III / 600 V CAT IV

SPECIFICATIONS

Models	PEL102	PEL103	PEL104	PEL106
Display	None	With triple digital display		With 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 (calculated neutral current)			4 voltage inputs, 4 current inputs
Measurements				
Network frequency	DC, 50 Hz, 60 Hz and 400 Hz			
Voltage (measurement ranges / best accuracy)	10.00 -1,000 Vac/dc			
Current (depending on sensors) (measurement ranges / best accuracy)	5 mAac to 10 kAac / 50 mAdc to 1.4 kAdc			
Calculated measurements				
Ratio	Up to 650,000 V / up to 25,000 A			
Power	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 = 1018)			
Phase	cos ϕ , tan ϕ , PF			
Harmonics	THD			
Additional functions				
Phase sequence	Yes			
Min / Max	Yes			
Mounting	Magnet			Hook (option)
Recording				
Sampling / Acquisition interval / Aggregation	1 measurement/s - from 1 min to 60 min		5 measurements/s - from 1 min to 60 min	
Memory	SD card, 8 GB (SD-HC card up to 32 GB)			
Communication	Ethernet, Bluetooth and USB		Ethernet, Bluetooth, USB, Wifi and GPRS	
Power supply	110 V - 250 V (+10 %, -15 %) @ 50-60 Hz & 400 Hz			Power supply via the phase 1,000 V AC/DC
Safety	IEC 61010 600 V CA T IV and 1 000 V CA T III			IEC 61010 1000 V CAT IV
Mechanical specifications				
Dimensions	256 x 125 x 37 mm without sensor			245 x 270 180 mm
Weight	900 g	950 g	900 g	<3400 g
Casing	IP54			IP67

STATE AT DELIVERY:

PEL102 or PEL103 delivered with:

1 carrying bag, 4 measurement cables (straight-banana/straight-banana 3 m long - black), 4 crocodile clips (black), 1 set of plugs (for the extremities of the cables and current sensors), 1 mains cable, 1 x 8 GB SD card, 1 USB cable, 1 SD - USB adapter, PC software (PEL Transfer), 1 user's manual (on CD), 1 safety datasheet, 1 quick start guide.

PEL104 with:

1 carrying bag, 4 voltage cables, 4 crocodile clips, PC software (PEL Transfer), 1 set of rings/inserts, 1 x 600 V mains adapter, 1 SD card, 1 SD - USB adapter, 1 USB cable, 1 user's manual in multiple languages, 1 quick start guide.

PEL106 with:

1 bag for the accessories, 5 x IP67 voltage cables, 5 lockable crocodile clips, 1 set of rings/inserts, PC software (PEL Transfer), 1 SD card, 1 SD - USB adapter, 1 USB cable, 1 user's manual in multiple languages, 1 quick start guide.

ACCESSORIES:

C193 clamp.....	P01120323B
MN93 clamp.....	P01120425B
MN93A clamp.....	P01120434B
E3N clamp.....	P01120043A
E3N adapter.....	P01102081
PAC93 clamp.....	P01120079B
J93 clamp.....	P01120110
AmpFlex® A193-450 mm clamp.....	P01120556B
AmpFlex® A193-800 mm clamp.....	P01120531B
AmpFlex® A196-610 mm clamp.....	P01120552
MiniFlex® MA194-250 mm clamp.....	P01120593
MiniFlex® MA194-350 mm clamp.....	P01120592
MiniFlex® MA194-1000 mm clamp.....	P01120594
MiniFlex® MA196-350 mm clamp.....	P01120568
Cables kit (x 5) BB196.....	P01295479
Mains power cable.....	P01295174
PEL100 mains adapter.....	P01102174
Cables/clamps kit (x4).....	P01295476
Set of plugs/rings.....	P01102080
5 A adapter.....	P01101959
DataVIEW® software.....	P01102095
Bag no. 23.....	P01298078

REFERENCES TO ORDER:

PEL102 without current sensors.....	P01157152
PEL103 without current sensors.....	P01157153
PEL104 without current sensors.....	P01157154
PEL106 without current sensors.....	P01157165

L452 logger



Mains adapter



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