

Optimize Your Energy Efficiency with the PEL100

**Control your consumption,
manage your energy spending
and monitor your network**



With their ergonomic design suitable for all types of cabinets, the PEL loggers provide all your power and energy measurements simultaneously.

- Single-phase, split-phase and three-phase installations
- Installation without cutting off the mains power supply
- Harmonic analysis up to the 50th order
- Bluetooth, Ethernet and USB Communication
- Automatic recognition of the sensors connected
- Recording on SD card
- Real-time communication with a PC and analysis with the PEL Transfer software

www.pel100.com

**Power
and Energy
Loggers**



ANDROID



1000 V CAT III



For economical, sustainable buildings, improve your energy efficiency

In the context of a worldwide initiative to protect the environment, Europe has set itself the target of reducing energy consumption by 20%. Today, industry and the building sector account for more than 50% of energy consumption. It is therefore crucial to optimize energy consumption if we are to fulfill the regulatory requirements.

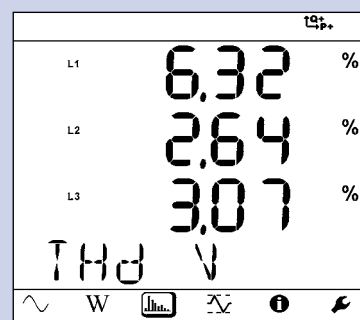
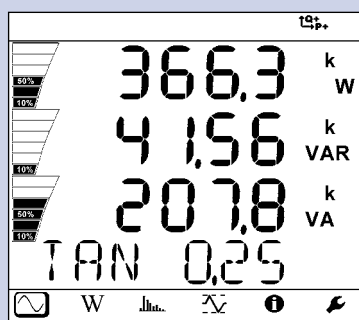
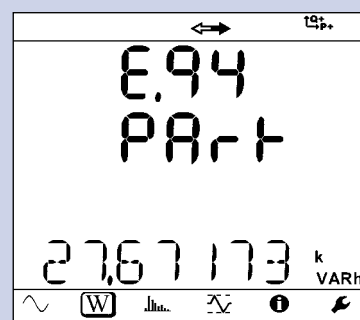
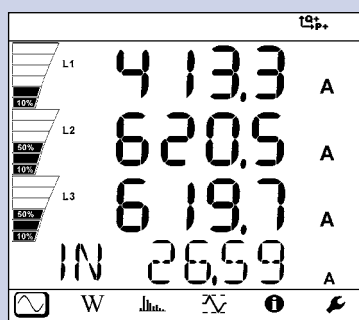
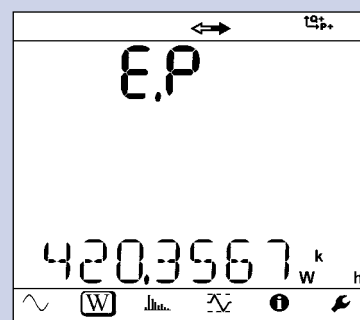
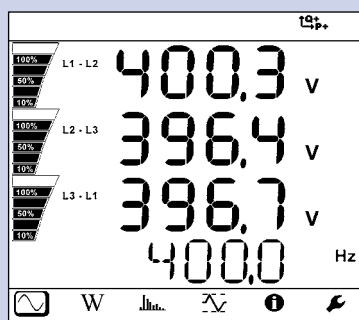
The PEL102 and PEL103 loggers are power and energy measurement loggers for all electrical installations. The measurements are performed with 3 current sensors and voltage inputs. They can be used to view all the electrical parameters and to take advantage of

the measurement, energy metering and communication functions. They offer users all the necessary measurements for successful energy efficiency projects and monitoring of your electricity distribution system. The PEL100 family of energy meters makes it simple to add

metering and measurement points in electrical cabinets where most of the space is already occupied. Because they are magnetic, they can be set up very easily in any cabinet and do not cause any obstruction once the cabinet door is closed.

Functions:

- RMS frequency, voltage and current
- VA, W and var power values
- VAh, Wh (source, load) and varh (4 quadrants) energy values, total energy
- $\cos \phi$, $\tan \Phi$ and power factor (PF)
- Crest factor
- THD calculated for currents and voltages
- Harmonics up to the 50th order for currents and voltages
- DC, 50 Hz, 60 Hz and 400 Hz measurements
- RMS AC or AC+DC
- Display on LCD screen
- Recording of measurements and calculation results on SD card
- Automatic recognition of the sensor type connected
- Large number of network types: split-phase, three-phase with or without neutral, etc.
- Bluetooth, Ethernet and USB Communication
- Software for data transfer, real-time communication with a PC and report generation



SPECIFICATIONS:

Models	PEL102	PEL103
Display	Without	Triple digital display
Installation types	Single-phase, split-phase, three-phase with or without neutral and many other specific configurations	
Number of channels	3 voltage inputs / 3 current inputs (calculation of neutral current)	
Measurements		
Network frequency	50 Hz, 60 Hz & 400 Hz	
Voltage (measurement ranges / best accuracy)	10.00 -1,000 V _{AC/DC}	± 0.2 % + 0.5 V
Current (depending on sensor) (measurement ranges / best accuracy)	5 mA _{AC} to 10 kA _{AC} / 50 mA _{DC} to 1.4 kA _{DC} / ±0.5 %	
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 Evarh / 4 EVAh (E = 10 ¹⁸)	
Phase	cos φ, tan φ, PF	
Harmonics	up to the 50th order	
Complementary functions		
Phase order	Yes	
Min / Max	Yes	
Mounting	Magnet, hook	
Recording		
Sampling / Acquisition rate / Aggregation	128 S/period - 1 measurement per second - from 1 min to 60 min	
Memory	SD card 2 GB (SD-HC up to 32 GB)	
Communication	Ethernet, Bluetooth and USB	
Power supply	110 V - 250 V (+10 %, -15 %) at 50-60 Hz & 400 Hz	
Safety	IEC 61010 600 V CAT IV – 1,000 V CAT III	
Mechanical Specifications		
Dimensions	256 x 125 x 37 mm without sensor	
Weight	900 g	950 g
Casing	IP54, UL (pending)	



Models	MN93	MN 93A	MA193-250	MA193-350	PAC93	A193-450	A193-800	C193	E3N	J93/J193
Measurement range	500 mA to 200 A _{AC}	0.005 A _{AC} to 100 A _{AC}	200 mA to 10 kA _{AC}	200 mA to 10 kA _{AC}	1 A to 1,000 A _{AC} 1 A to 1,300 A _{DC}	200 mA to 10 kA _{AC}	200 mA to 10 kA _{AC}	1 A to 1,000 A _{AC}	50 mA to 10 A _{AC/DC} 100 mA to 100 A _{AC/DC}	50 A to 3,500 A _{AC} 50 A to 5,000 A _{DC}
Clamping Ø / length	20 mm	20 mm	Ø 70 mm / 250 mm	Ø 70 mm / 350 mm	1 x Ø 39 mm 2 x Ø 25 mm	Ø 140 mm / 450 mm	Ø 250 mm / 800 mm	52 mm	11.8 mm	72 mm
IEC 61010	600 V CAT III / 300 V CAT IV		1,000 V CAT III / 600 V CAT IV	1,000 V CAT III / 600 V CAT IV	600 V CAT III / 300 V CAT IV	1,000 V CAT III / 600 V CAT IV		600 V CAT IV	600 V CAT III / 300 V CAT IV	600 V CAT III / 1,000 V CAT IV

STATE AT DELIVERY:

One PEL102 or PEL103 power and energy logger:

4 measurement leads (straight banana / straight banana – 3 m long – black), 4 crocodile clips (black), 1 SD card (2 GB), 1 set of rings and inserts (for ends of leads and current sensors), 1 mains cable, 1 USB cable (Type A / Type B), 1 MultiFIX mounting systems, 1 operating manual (on CD), 1 bag, 1 safety datasheet, PEL Transfer PC software, 1 quick start-up guide, 1 SD-USB adapter.

REFERENCE TO ORDER:

PEL102 Logger without current sensors P01157152
 PEL103 Logger without current sensors P01157153



ACCESSORIES:

DataVIEW® software	P01102095
Bag No 23	P01298078
Leads/clamps kit	P01295476
Set of id. rings/inserts	P01102080
5 A box	P01101959
MN93 clamp	P01120425B
MN93A clamp	P01120434B
C193 clamp	P01120323B
PAC93 clamp	P01120079B
AmpFlex® A193-450 mm clamp	P01120526B
AmpFlex® A193-800 mm clamp	P01120531B
MiniFlex® MA193-250 mm clamp	P01120580
MiniFlex® MA193-350 mm clamp	P01120567
E3N clamp	P01120043A
E3N adapter	P01102081
J93 clamp	P01120110
J193 clamp	P01120111
MultiFIX	P01102100Z
Mains power cable	P01295174
PEL100 mains adapter	P01102134

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