

PEL 110 SERIES

**Simultaneous power
and energy loggers**

**The loggers for efficient
consumption!**

- Possibility of recordings covering several months
- Breakdown of energy losses
- Installation without cutting off the mains supply
- Android application with motor diagnostics



Energy

Industry

Motor



Measure up



Save money by controlling your energy consumption.

To optimize your energy efficiency, reduce costs and improve the performance of your electrical systems, the simultaneous power and energy loggers in the PEL 110 Series are ideal tools.

THE PEL 110 SERIES

PEL 112



3 voltage inputs, 3 current inputs.
Compact and magnetized with no display, this model supports **negative temperatures** and is suitable for use in cold rooms (-20°C).

PEL 113



3 voltage inputs, 3 current inputs.
With a quadruple backlit digital display.

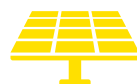
PEL 115



4 voltage inputs,
4 current inputs.
The all-terrain
model in
an **IP67**
site-proof
casing.

THE MARKETS

From electricity generators through to consumers, the PEL power loggers are very simple to interface everywhere.



Renewable energies
photovoltaic, wind, hydroelectric, thermal and thermo-dynamic



Process industries
metallurgy, glassmaking, paper, chemicals, agri-food, etc.



Building construction and renovation
housing, facilities, etc.



Public services/transport
monitoring where the consumption is occurring (lighting, roads, motorways, tunnels, rail, etc.)



Datacenter
monitoring and analysis of consumption



APPLICATIONS



ENERGY AUDITS

- Voluntary (ISO 50001, etc.) or mandatory operation aiming to reduce energy consumption: buildings, housing, infrastructure, equipment, etc.
- Implementation of measurement campaigns focused on energy for comprehensive diagnosis of the electrical installation
- Identification of the causes of overconsumption by the equipment or overbilling



PREVENTIVE AND PREDICTIVE MAINTENANCE

- Industrial equipment monitoring
- Analysis of consumption due to the Air-conditioning, Ventilation and Heating systems
- Sizing of a power factor correction cabinet
- Redistribution of the loads on the electrical grid
- + Motor diagnostics: measurement of a motor's speeds, efficiency and torque without using mechanical sensors

OUTDOOR USE ON ELECTRICITY POLES

The PEL 115 is integrated in a rugged, waterproof casing ensuring IP67 ingress protection.

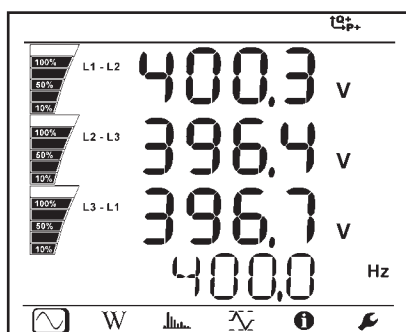


PEL115

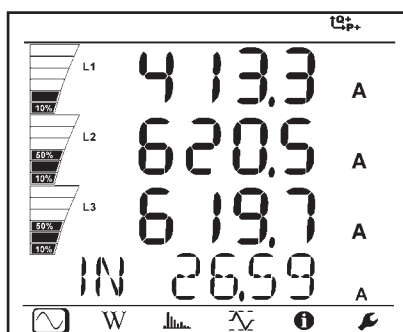
Keep datacenters' hyperconsumption under control with the PEL110 Series

The vast volume of data requiring constant management places a heavy load on the servers and cooling systems. Consumption monitoring is a key factor for preventing failures and overconsumption. This helps to control costs and make the datacenter more reliable.

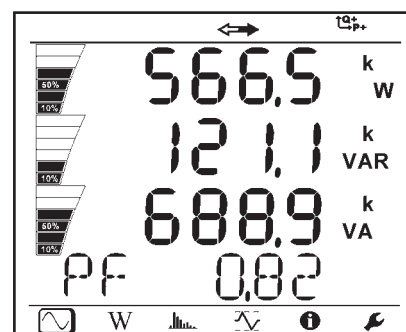
MEASUREMENTS & FUNCTIONS



Voltage



Current



Power/PF

- RMS and DC measurements with 128 samples/cycle simultaneously on each phase
- AC and/or DC voltage measurements up to 1,000 V
- Current up to 10 kA AC, 5 kA DC (depending on the current sensor).
- Active, reactive (N,D,Qf) and apparent power values
- Active energy values
- Fundamental active power values (Pf), balanced active power values (P+) and unbalance active power (Punb)
- Motor measurements and characterization
- Self-powered via the phase
- Extensive measurement range by using voltage and current ratios
- Breakdown of energy losses
- The phase data: $\cos \phi$, $\tan \Phi$, power factor (PF)
- Crest factor
- THD calculation for currents and voltages
- DC, 50 Hz, 60 Hz and 400 Hz measurements (Naval, etc.)
- Recording of the measurements and calculation results on the SD card
- Automatic recognition of the type of sensor connected