

Type of product: Power and Energy Loggers

Names of products: PEL102 & PEL103

NEW

PEL100 Power and Energy Loggers Control your consumption and manage your energy costs

Designed, developed and manufactured entirely by the **Chauvin Arnoux Group's** Engineering Department, our **PEL100** loggers are cleverly **economical and simple to use**. They are essential tools for electricians, engineers and technicians involved in monitoring and improving technical building and systems management and in **energy auditing**.

They are universal and suitable for all types of electrical cabinets and all types of networks, whether single-phase, split-phase or three-phase. They are also compatible with many current sensors which they recognize automatically as soon as they are connected.

Two different models, both just as simple to use, with or without a display!

The PEL100 family comprises two models: the screenless PEL102 and the PEL103 with a backlit digital display.

Both models **measure, record and analyse all the important energy data**.



Designed to be compact

Their specially-designed extra-slim casing means they can be installed with their current sensors on any types of distribution switchboard **without blocking closure of the cabinet door**

In addition, they are magnetized so that they can be set up without interrupting the industrial process.

Universal communication and simultaneous data processing

The PELs offer multi-channel communication. Using a removable **32 GB SD card** or USB, Bluetooth or Ethernet connection, **the data can be stored or recovered in real time.**

The **PEL Transfer®** software delivered with the product allows the data from several PEL100 loggers installed in a network to be viewed simultaneously, without sizing constraints. This is particularly useful for assessing energy consumption per department or installation, whatever the geographical area involved.

It is possible to view real-time data while simultaneously downloading stored measurements to analyse them and generate standard-compliant reports with just a few parameter settings.

This **PEL Transfer® software** configures and customizes the information required by the user: type of network, sampling interval, recording duration (defined by a time and/or date), voltage and current ratios and communication mode.



Functions & Applications

The PEL100s propose a wide range of **advanced functions** to meet the current market requirements. The main applications of these loggers involve predictive maintenance, site consumption monitoring and mapping, measurement of the savings achieved, centralized consumption management, etc.

They offer all the essential functions needed to record power and energy data on all types of networks. The PEL100 loggers measure on three voltage inputs and three current inputs and record the measurements, the values in Watt, var and VA and the energy data (kWh, kVA and kvar). In parallel, they calculate and record the power factor, the DPF, the crest factor, the frequency and the total harmonic distortion (THD). It is also possible to record information on a given harmonic, including the value, the percentage and the phase angle up to the 50th order, depending on the user's choices. PEL100 loggers offer 1% accuracy.

All the variables are recorded and stored at 1s intervals, with aggregation over periods ranging from 1 to 60 minutes, depending on the parameter settings chosen by the user.

On the market, the PEL100s stand out due to their pricing from 1,200 to 1,500 euros , depending on the model involved, and the fact that they are delivered with a bag, leads, clips, Mini*FLEX* flexible sensors, processing software and mini-SD card adapter.

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