

M - Tools



new



P01157151



P01157150



P01157151 + P01102134



P01120580

Chauvin Arnoux - PEL103 Power & Energy Loggers IP54 casing

Portable, advanced yet simple to use Power and Energy logger, designed for energy audits (ISO 50001 standard) or one-off measurements of the Power and Energy values in low-voltage electrical networks (1000 V CAT III)

PEL100 series Power and Energy loggers provide a complete solution to measuring and identifying energy consumption in any industry, they can be used handsfree, remotely without interruption to the mains power. The logger tracks even the slightest consumption in an electrical network, providing all Power and Energy measurement recording on the internal 2GB SD card, while simultaneously permitting real-time monitoring on its backlit 4 line LCD display. Recordings are time/date stamped for ease of comparing measured gains achieved before and after installation modification. Easily transfer recorded data to a PC via the free PEL data transfer software and SD card with USB adaptor (included). Designed to fit inside most electrical cabinets thanks to its magnetic base or hook for easy mounting.

Key Features of the PEL103 include:

Measurements and display of:

- RMS frequency, voltage and current measurements
- Voltage measurement ranges 10 to 1000V AC/DC +/- 0.2 % + 0.5 V
- Current measurement ranges 5 mA to 10 kA AC / 50 mA to 1,4 kA DC ±0.5 %
- VA, W and var power values
- Power Factor (PF), cos φ, tan φ and crest factor
- Total Harmonic Distortion (THD) for currents and voltages
- DC, 50 Hz, 60 Hz and 400 Hz measurements
- Phase rotation indication and MIN/MAX indication of all parameters
- VAh, Wh (source, load) and varh (4 quadrant) energy values, total energy
- Harmonics: up to the 50th order for currents and voltages (an essential feature to help identify problems)

- **Network types include:** Three phase (with or without neutral), split phase, single phase
- **Automatic recognition:** Of the type of sensor connected
- **Communication / Data transfer:** USB, Ethernet and Bluetooth / PEL transfer PC software (included)
- **Records:** Measurements and calculation results on SD card (included)
- **Acquisition rate:** 128s/period



Scan to watch video

PEL 103 Power and Energy logger (KIT) (created as a complete kit with following accessories)

- 1 x PEL103 Power and Energy Logger: Analyser with backlit LCD screen
- 3 x MA193 (200 mm) flexible current clamps: MINIFLEX MA193 flexible current sensors - 200mA to 10 kA
- 4 x Measurement leads and crocodile clips: Robust high quality test leads for frequent use/built to last
- 1 x Set of coloured rings and Inserts: For easy identification of connections and leads
- 1 x 2GB SD card (internal): SD card to USB adaptor

SD card to USB adapter, USB cable, mains cable, MultiFIX mounting system, operating manual (on CD)
PEL transfer PC software enabling data to be transferred to PC, all in a convenient canvas carrying bag.

type	model	description	dimensions (mm)		
			(H)	(W)	(D)

PEL 103 Power and Energy logger (KIT)					
P01157151	PEL103 (KIT)	portable power and energy logger/analyser	256	125	37
P01157150	PEL102 (KIT)	as above, but without LCD display screen	256	125	37

Accessories for PEL103 Power and Energy logger

P01120434B	MN 93A	compact tong clamps for PEL102/3	Ø20 mm	0.005 - 100A	
P01120323B	C193	compact tong clamps for PEL102/3	Ø52 mm	1 - 1000A	
P01120580*	MA193-250	Ampflex 250 mm flexible current sensor	Ø70 mm	200mA - 10kA	
P01120526B	A193-450	Ampflex 450 mm flexible current sensor	Ø140 mm	100mA - 10kA	
P01101959	CA833X-F	for reading from 5A secondary CT's		5A adaptor	
P01102134	self-power	mains adaptor for self powering PEL from supply		mains adaptor	
P01295174*	mains lead	mains power cable - (2P EUR)			
P01295476*	test leads	spare measurement leads (3m) with crocodile clips		KIT (black)	
P01102080*	set	ID rings and inserts (for ends of leads and sensors)		diff. colours	

P01298078* bag no.23 canvas carrying bag for PEL analyser and access

* Items supplied with standard PEL KIT.

Data processing software power quality & installation supervision

Automatically recognizes the instrument connected to the PC and opens the corresponding menu, providing direct access to the configuration and saved data. Includes many predefined report templates for quick generation in compliance with applicable standards. Users can create personalised models to fit their requirements and add comments directly.

- Configuration of all the functions of instruments connected to a PC or via Bluetooth
- Recovery of the recorded measurement data and backup of measurement files
- Opening of saved files / processing and creation of reports (EN50160)
- Export into an Excel spreadsheet or PDF format / Database management

P01102095 DataView powerful configuration/transfer/measurement data processing software