

Flash

Three-phase electrical energy analyzer & controller

NEW!



Programmable microprocessor based three phase electrical energy analyzer, offering outstanding measurement accuracy, stability and reliability. Suitable for operation in 3-wire, 4-wire, LT, HT three phase system

General Specifications

- RMS measurement to the 31th harmonic
- Class 1 on energy as for IEC EN 61036
- High contrast, long-life, LCD display suitable for wide temperature range with back-light (size 70 x 70 mm)
- Galvanic isolation on all inputs and outputs
- Automatic scale change on current
- Automatic amplifier offset correction
- Digital operation for high measurement stability
- Modular design in 96 x 96 mm flush mounting case
- Easy to install and friendly in use
- Compliant with safety standards
- Input Voltage 600 Vac
- Input current max 5A (isolated)
- Programmable for measurements in low, medium or high voltage (programmable CT and VT ratios) delta or star connection
- Internal energy meters
- Programmable integration time
- Elapsed time meter
- 2 digital output for pulse or alarm output (Din 43864 27 Vdc 27 mA)
- Led for calibration control

- Separate Power Supply 85/265 Vac - 100-374 Vdc
- Analog indicator of the selected measurements

Patented microprocessor-based digital energy analyzer of outstanding accuracy and versatility.

Readings are RMS values measured by a digital circuit guaranteeing maximum precision, reliability and stability over time.

Calibration and testing are effected using an automated digital calibration system. Each instrument is issued with a certificate of conformity and calibration. All the inputs and outputs are galvanically isolated from each other and the power supply to guarantee complete operation safety in any type of installation and excellent resistance to disturbances.

Preliminary

ELETTREX

Measurements and display

U	RMS Voltage*
I	RMS Current*
P	Active Power *
PF	Power Factor * (Cos ϕ)
S	Apparent Power *
Q	Reactive Power *
P_m	Average Active Power
S_m	Average Apparent Power
Q_m	Average reactive power (1)
P_{MD}	Maximum Demand on Active Power (1)
S_{MD}	Maximum Demand on Apparent Power (1)
Q_{MD}	Maximum Demand on reactive power (1)
E_A	Active Energy Consumption
E_R	Reactive Energy Consumption (1)
THD	Total harmonic distortion on voltage and current for each phase (1)
Hz	Frequency
T	Elapsed on time from manufacturing
Bimetal	(Max Demand) on I and P (2)

* Phase and three-phase values

(1) Only on Flash ET

(2) Only on demand for special applications on quantity

Applications

- Measurement and analysis of industrial electrical parameters and electrical energy
- Metering and monitoring of active and reactive energy consumption
- Maximum Demand measurement, monitoring and control
- Intelligent peripheral for monitoring and data acquisition networks
- Industrial cost-accounting and production management systems
- Alarm signalling
- Co-generation plant metering and control

Options

- Output RS485
- Output RS232
- Analogic double output



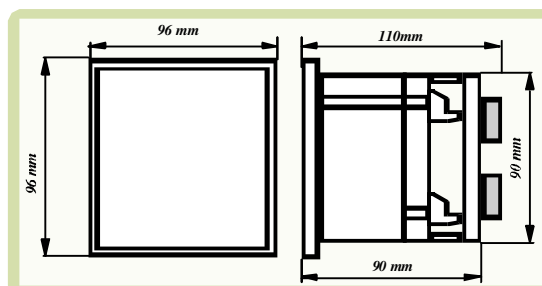
Silicon key

LCD with back-light

Led active power



Size



•Flash PFE402-00
 •Flash ET PFE405-00
 •Flash ET 485 PFE406-00
 •Options:

ORDERING CODES:

•output RS485 PFE420-00
 •output RS232 PFE421-00
 •Analogic double output PFE422-00