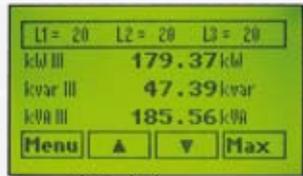


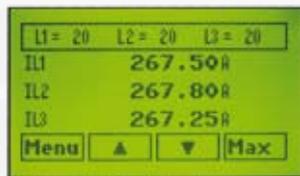
Measurement



computer plus regulators include a three-phase network analyzer, enabling instantaneous display of all the network electrical parameters (voltage, current, active power, reactive power, energies, harmonics, etc.).



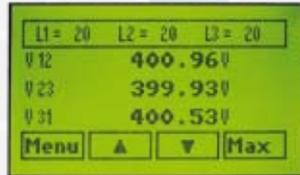
Power measurement



Phase current



Harmonic measurement



Voltage measurement

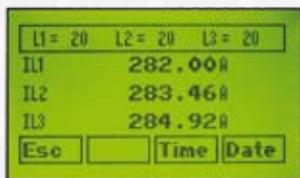


cos φ y PF measurement

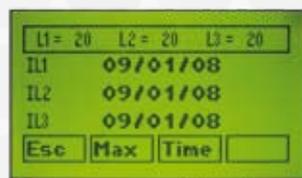


Energy measurement

The three-phase network analyzer shows the instantaneous values, of electrical parameters and also allows the recording of maximum values of such parameters giving the date and time of occurrence.



Registered $I_{m\acute{a}x}$.



Date and time of register

Communications



computer plus regulators are fitted with RS-485 communication to display a large amount of information available.



▲ The communication system enables the remote control, supervision and preventive maintenance both of the capacitor bank and the network

▲ RS-485 communications (Modbus protocol)

▲ SCADA software allows the display on a PC of several parameters and alarms (cos φ, leakage levels, general status of the capacitor bank, etc.) of the electric parameters of the network.

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computer **plus**

New generation of CIRCUTOR power factor regulator

Intelligent power factor regulators



✓ Three-phase measurement method allowing precise regulation

✓ Real time, individual phase compensation method

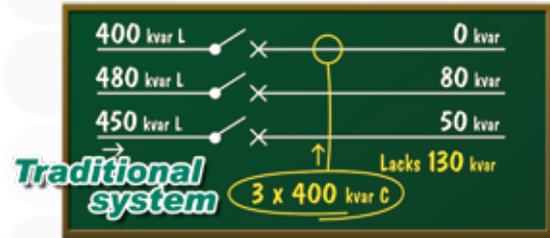
CIRCUTOR
Technology for energy efficiency

“plus” is more
a wide range of new features

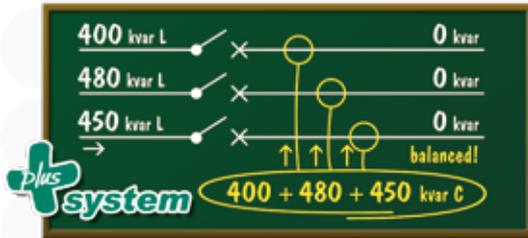
Intelligent regulators

computer plus regulators are a new concept in Power Factor Correction:

- ✓ They measure on the three phases and accurately compensate the total reactive energy
- ✓ They compensate reactive energy using individual phase control in real time and in addition to correcting the total reactive to zero; they also achieve a balance of active power between phases
- ✓ Plug and Play, start up at the touch of a key.



Installation demand: 1330 kvar // Capacitor bank input: 1200 kvar



Installation demand: 1330 kvar // Capacitor bank input: 1330 kvar

Fast

computer plus regulators feature a measuring system which allows compensation in installations requiring real time compensation.

Easy

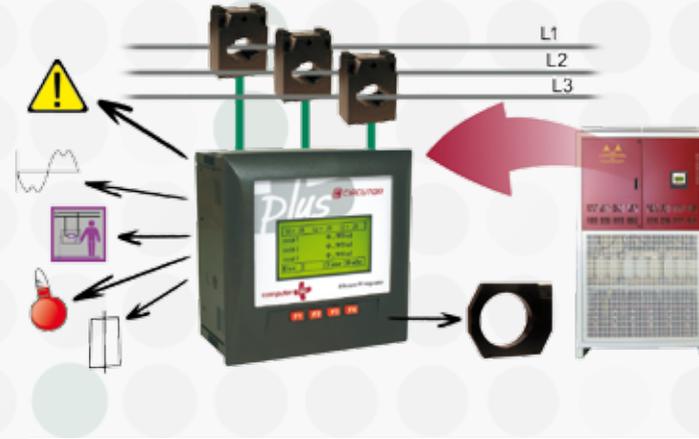
computer plus regulators are equipped with intelligent controllers designed to make adjustment and navigation through the different menus and display of all the registered parameters easy. They begin working just pushing a key.

Safety

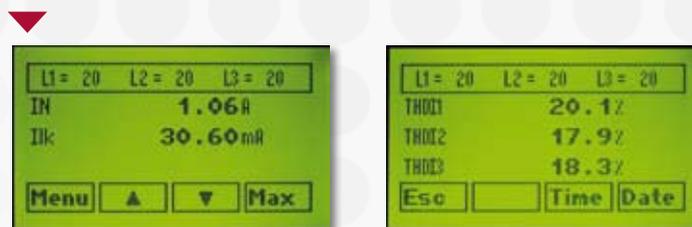
computer plus regulators are the safest on the market:

-  Harmonic protection, with anti-resonance system
-  Individual step leakage current protection
-  Overheating protection
-  Individual step fuse protection

Three-phase measurements, ensuring total compensation of the consumed reactive energy.



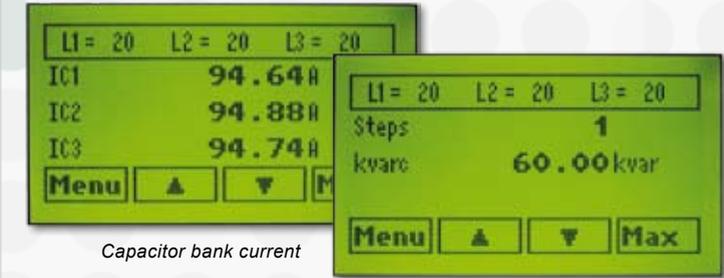
Measures individual step leakage current in real time. Only damaged capacitors are disconnected.



Harmonic protection, with anti-resonance system

Supervision

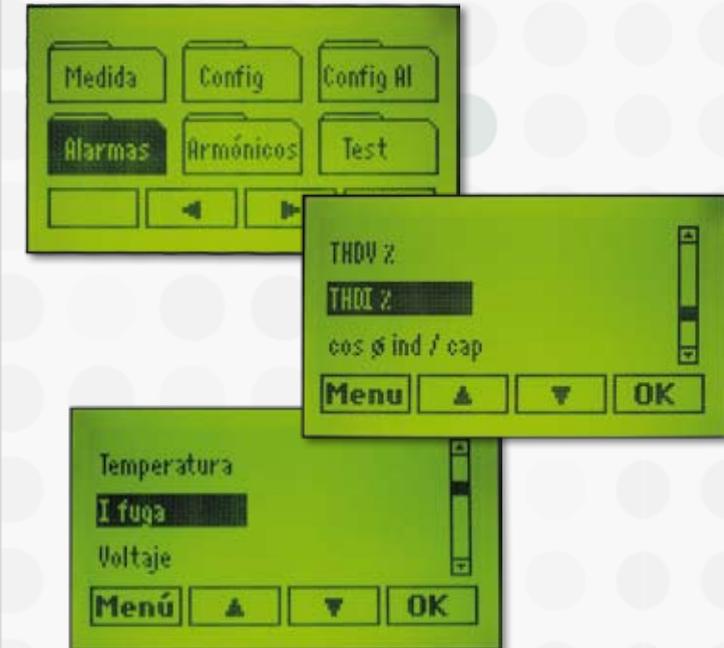
computer plus regulators carry out a complete check on the status of the network and a self-check on the status of the capacitor bank, managing, among other things, the lack of compensation, loss of capacity, leakage, etc.



Capacitor bank current

Connected power

The TEST function enables preventive maintenance of each capacitor step as well as the display of their capacitance. Totally configurable alarms permit the supervision and management of all the electrical parameters of the installation.



Alarms: temperature, harmonics, overvoltage, undervoltage, leaks, etc.