

# SALIENT CHARACTERISTICS OF PLC

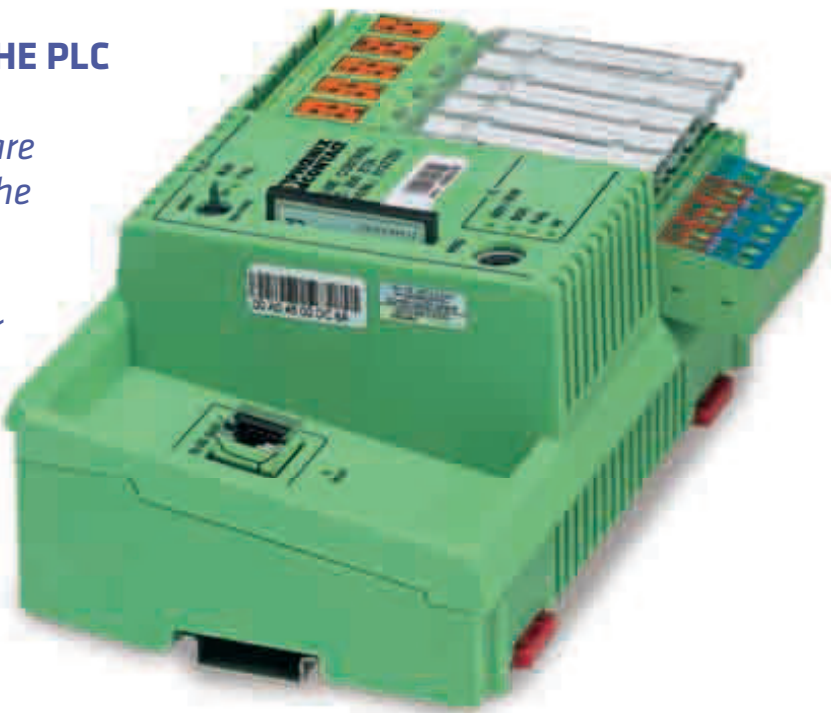
The ECoMos software communicates with the system's PLC by GSM/GPRS modem  
All functions are guaranteed and managed by a purpose built software package created by SIEL that works on the CPU of the PLC

- SOME OF THE CHARACTERISTICS AND FUNCTIONS OF THE PLC FOLLOW**
- Detection of data from the inverter and the field junction boxes
  - Detection of environmental parameters (irradiance sensors, anemometric sensor, cell temperature sensor, environmental temperature sensor)
  - Local diagnostics through html web pages on the PLC (server).
  - Communication by SMS for any alarms considered critical
  - Datalogger: data storage in csv format on compat flash devices in the case of connection failure with the GPRS system for a total of three days (depending on the complexity of the plant)
  - Management of remote display

- WHERE NECESSARY AND DEPENDING ON THE TYPE OF PLANT, THE FOLLOWING DEVICES CAN BE ADDED**
- Status of switches in c.c. and c.a. including those in MT
  - Insulation resistance monitors and thermometric monitors of the transformers
  - Interface device: depending on the device, programmable relays can be acquired as digital input
  - UPS status: remote detection of digitally input UPS status, whether battery or mains powered.
  - The PLC also provides digital output which allows for remote control of all connected devices (e.g. motorized switches, START/STOP of inverters connected to a terminal)

## REPRESENTATION OF THE CPU OF THE PLC

It is important to note that the hardware utilized can be modified according to the complexity and size of the plant, the number of inverters, the number of field junction boxes and the number of monitors one wishes to include



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**ECOMOS**  
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