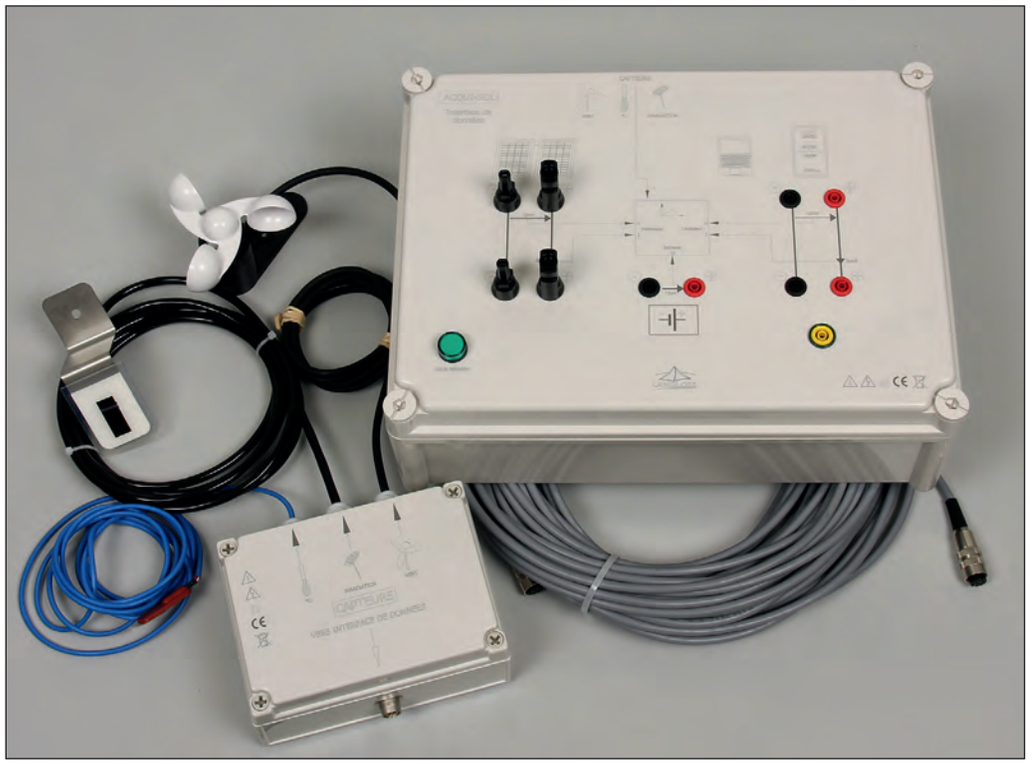
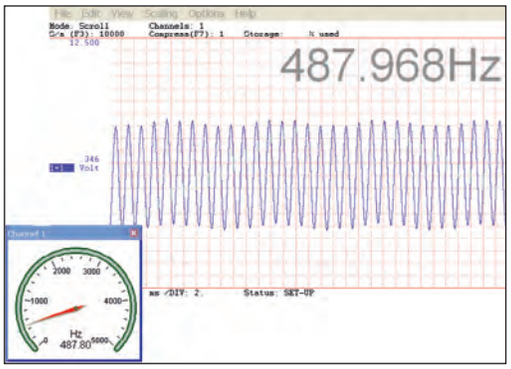
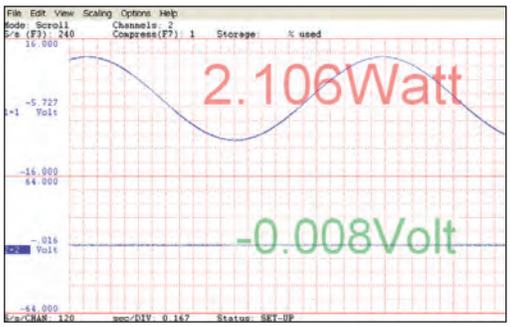
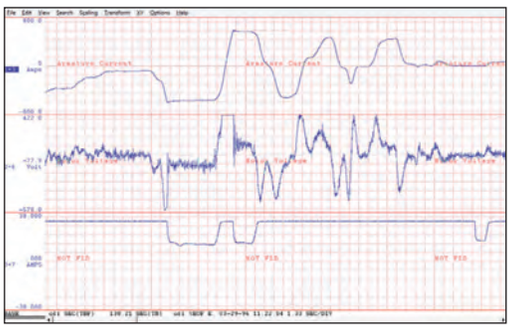
SOLAR DATA ACQUISITION









Set of sensors, interfaces and software for the real time data monitoring of a photovoltaic installation.

ref. ACQUI-SOL2

This system allows the acquisition of data on any LANGLOIS solar models, in “isolated site” or “grid injection” mode.
Record the following physical quantities in real time:
- temperature of the solar panel surface,
- the wind speed,
- the solar radiation,
- the voltage and current produced by the solar panels
- the battery charging voltage and current ("isolated site" mode only)
- the voltage and current injected to the grid ("grid injection" mode only)
- the load consuming current, supplied from the batteries (“isolated site” mode only), or from the synchronous inverter, before returning to the networks.

An autonomous mode is also available, allowing the acquisition of data on USB memory stick (provided) plugged directly on the box.
The software (included) allows live viewing on a PC, via the USB connection, or deferred viewing. It is also possible to save the data in .csv format, in order to process them on the spreadsheet software of your choice.

COMPOSITION :
- 1 main box, to be connected to any LANGLOIS solar models.
  MAX DC voltage input: 100VDC
  MAX AC voltage input: 230VDC
  MAX current input: 10A AC/DC
- 1 secondary box, waterproof, converting the data from the 3 sensors supplied, into a 4-20mA signal:
  - 1 anemometer (km/h)
  - 1 temperature sensor (°C)
  - 1 solar radiation sensor (W/m2)
- 30m connection cable between the main and secondary boxes.
- 1 set of 4mm safety test leads
- 1 USB cable for the PC connection
- 1 USB memory stick data storage in stand-alone mode
- 1 power cord 230Vac (2P+E)
- 1 user guide
- 1 visualization software. (English version only)

The software allows the consultation of data in real time or deferred. 8 channels can be displayed at a time, and each of them can be scaled to match the expected units.
During viewing, it is possible to simultaneously save data to a separate disk.