USB DATA ACQUISITION & PROCESSING

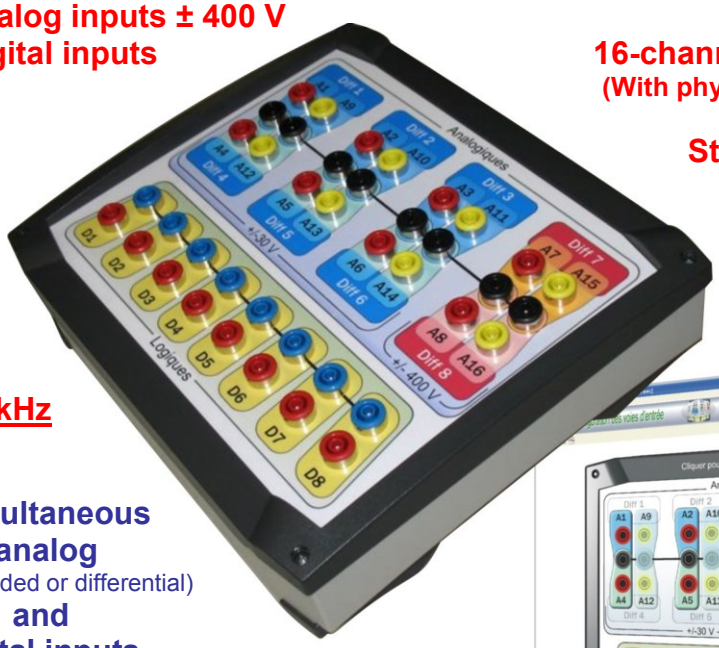
12 analog inputs ± 30 V
4 analog inputs ± 400 V
8 digital inputs

16 single-ended / 8 differential channels

16-channel oscilloscope
(With physical values display)

Standalone, powered by USB

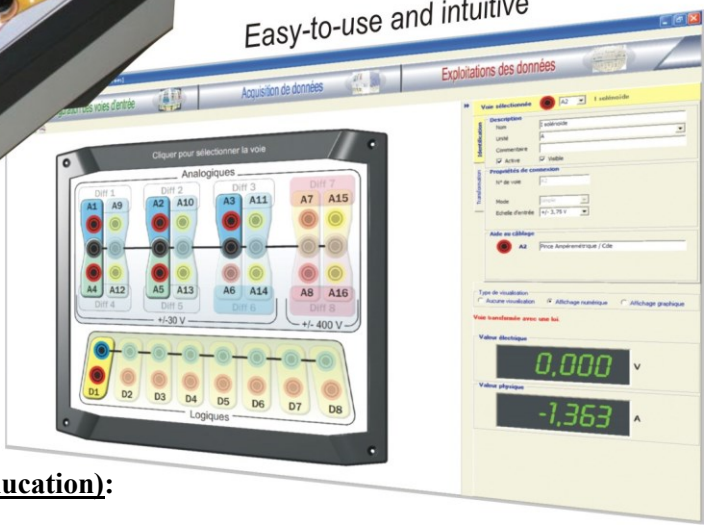
Protected case



250 kHz

Simultaneous analog
(single-ended or differential)
and digital inputs

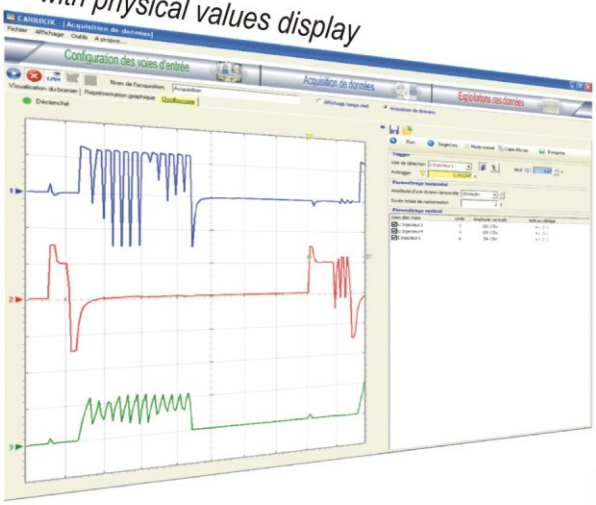
Easy-to-use and intuitive



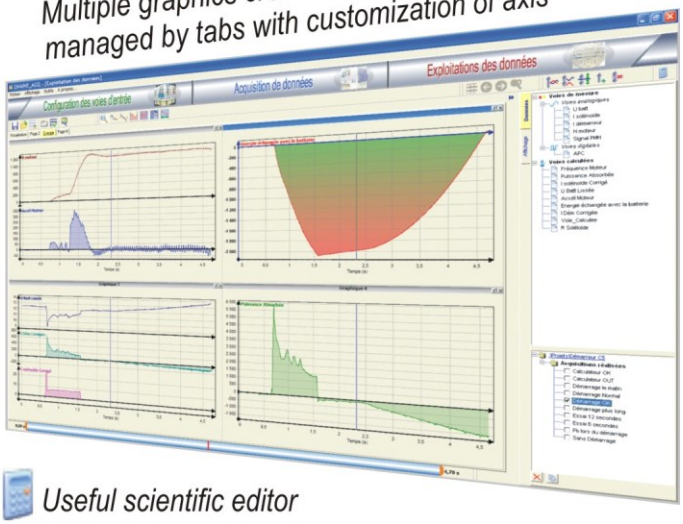
Adapted to Bac & Bac Pro (French National Education):
. Playful and intuitive setting
. Helpful wiring assistant
. Conversion into physical value (setting by representing the sensor's conversion curve)
. Pictures animated with acquisition data

Adapted to BTS (French National Education):
. Particularly adapted to teaching of systems study in BTS AVA (automotive after-sales)
. Easy to use thanks to various modes of acquisition triggering
. Interpretation of data facilitated by the quality of its graphics and the power and flexibility of its scientific editor

Oscilloscope mode with physical values display



Multiple graphics created by drag & drop managed by tabs with customization of axis

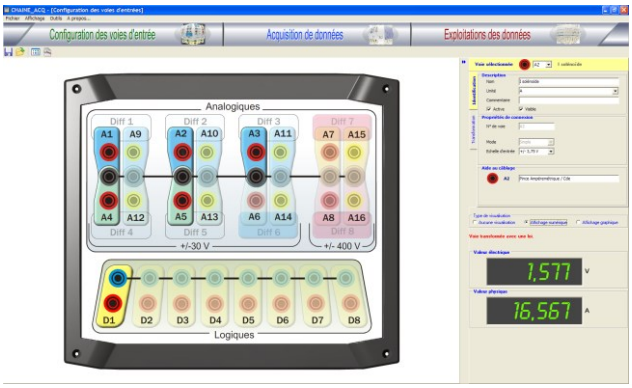


Useful scientific editor

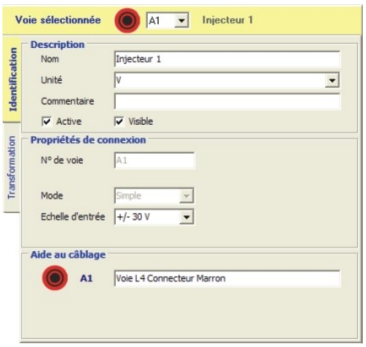
231 rue James WATT – Tecnosud – 66100 PERPIGNAN
Tel (33) 4 68 83 28 26 – Fax (33) 4 68 83 19 67
Internet : www.carmelec.fr – Email : contact@carmelec.fr

Input channels settings

① Configuration des voies d'entrée

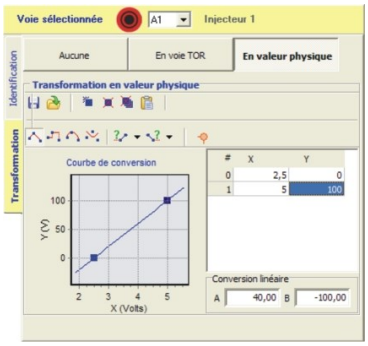


Channel identification:



Channel conversion:

- into physical value
- into 0 or 1 according to thresholds



- Graphical selection of channels to use by clicking on the image of the case
- Automatic creation of wiring help (printed as table and image).

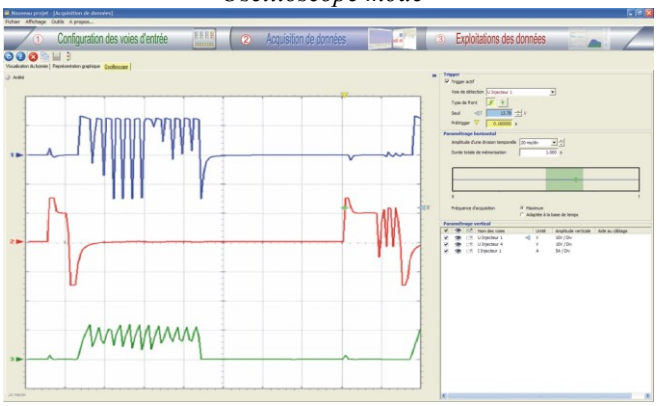
Data acquisition & recording

② Acquisition de données

Acquisition conditions & Oscilloscope mode:

Acquisition mode

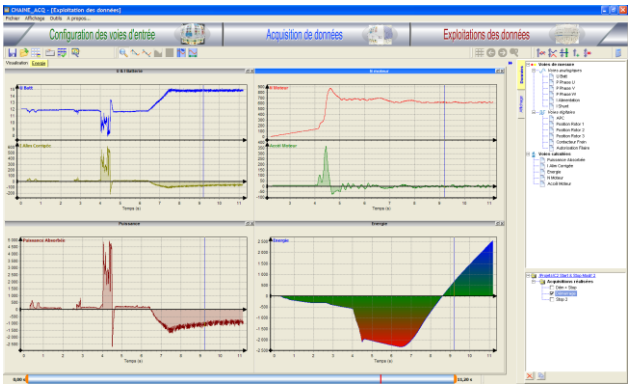
Oscilloscope mode



Acquisition data are recorded in data processing section

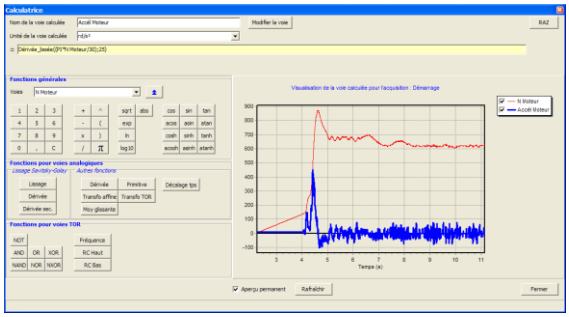
Phenomena analysis & data processing

③ Exploitations des données



Phenomena analysis & Data processing:

- Multiple views managed by tabs
- Axis customization in each view
- Measurement tools:
  - Slope
  - Tangent line in one point
  - Definite integral with mean value
  - Rising-edge counter
  - Measure of duty cycle
  - Measure of duration and frequency
- Easy data import by « copy & paste»
- Scientific editor:
  - Basic mathematical functions
  - Moving average
  - Data smoothing
  - First and second derivative
  - Primitive – Antiderivative
  - Transformation into 0 or 1 according to thresholds
  - Frequency variation computation
  - Duty cycle variation computation (low and high)



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