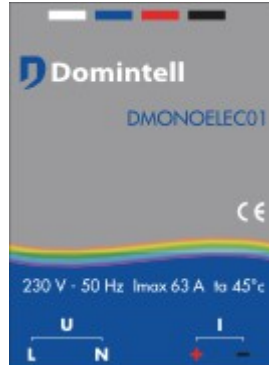


DMONOELEC01

About

The DMONOELEC01 measures the energy (Wh) on single phase electrical installation. The frequency, the RMS voltage and the RMS current are also measured.



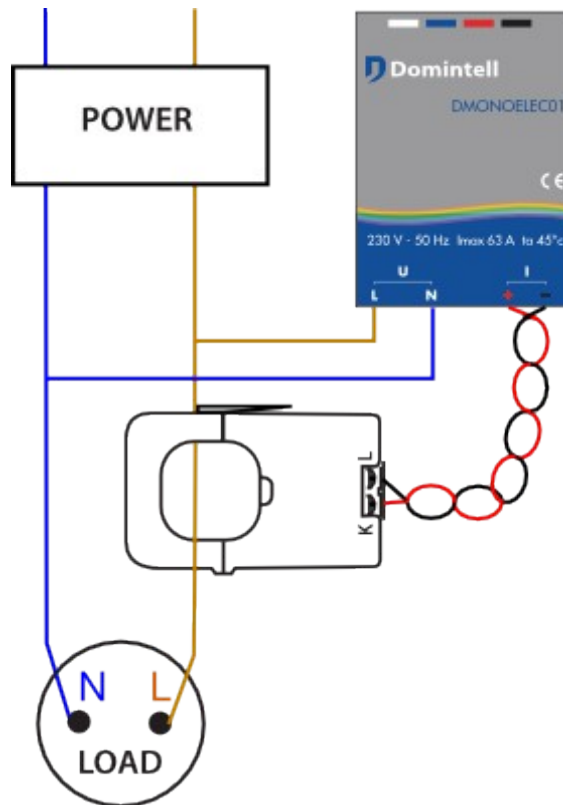
Specifications

- Minimal version of Domintell2 software : **1.26.06**.
- Minimal version of module's firmware : **v5**.
- Several DMONOELEC01 can be connected on Domintell2 bus.
- Maximal RMS voltage : 389Vrms.
- Minimal RMS voltage : 80Vrms.
- Maximal RMS current : 63Arms.
- Minimal RMS current : 200mArms.
- RMS current resolution : 1mA.
- Line frequency : 50Hz or 60Hz.
- Provided current clamp : JetDelectronics JC-10F (ratio 3000:1).
- Module's consumption : 40mA.

Limitations

- **Installation must have at least one DTSC02 or DTSC04 to log and display measures.**
- Logged data can only be displayed on DTSC02/DTSC04 screen.
- No links or conditions can be done for now.
- Phase angle is discarded. So only apparent power (VA) is computed.
- If voltage is below 80Vrms or current below 200mArms, null data will be returned for all values.
- **Only provided current clamp can be used.**

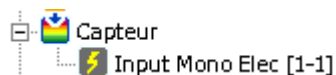
Wiring



- Phase for which power must be measured is directly connected to L and N connections of DMONOELEC01
- Place JC-10F current clamp on phase wire and connect **K** and **L** terminations to **+** and **-** connections on DMONOELEC01 using, if possible, STP (shielded twisted pair) with section from 0.34mm² to 1.5mm².
- **Electromagnetic fields can disturb current measurement. Do not tie wires of current sensors along high voltage wires or contactors**
- **Be sure that clamp is completely closed otherwise measure will be invalid.**

Configuration in software

- After a network scan, the DMONOELEC01 will appear in Sensor section in the middle column.



- By editing module properties (right-click on "Input Mono Elec"), you will be able to select Power Line frequency (50Hz or 60Hz) and if module is correctly wired (on Domintell2 bus and power side), you will see live measures.

Paramètre module

Nom

MOD Mono Elec

Type

DMONOELEC01

Version

1

Adresse

1

Fréquence

50Hz

Entrées

Nom

Input Mono Elec

Lecture des valeurs

Fréquence

50 Hertz

Tension

238 Volts

Courant

1,98 Ampères

Puissance

471 Watts

Annuler

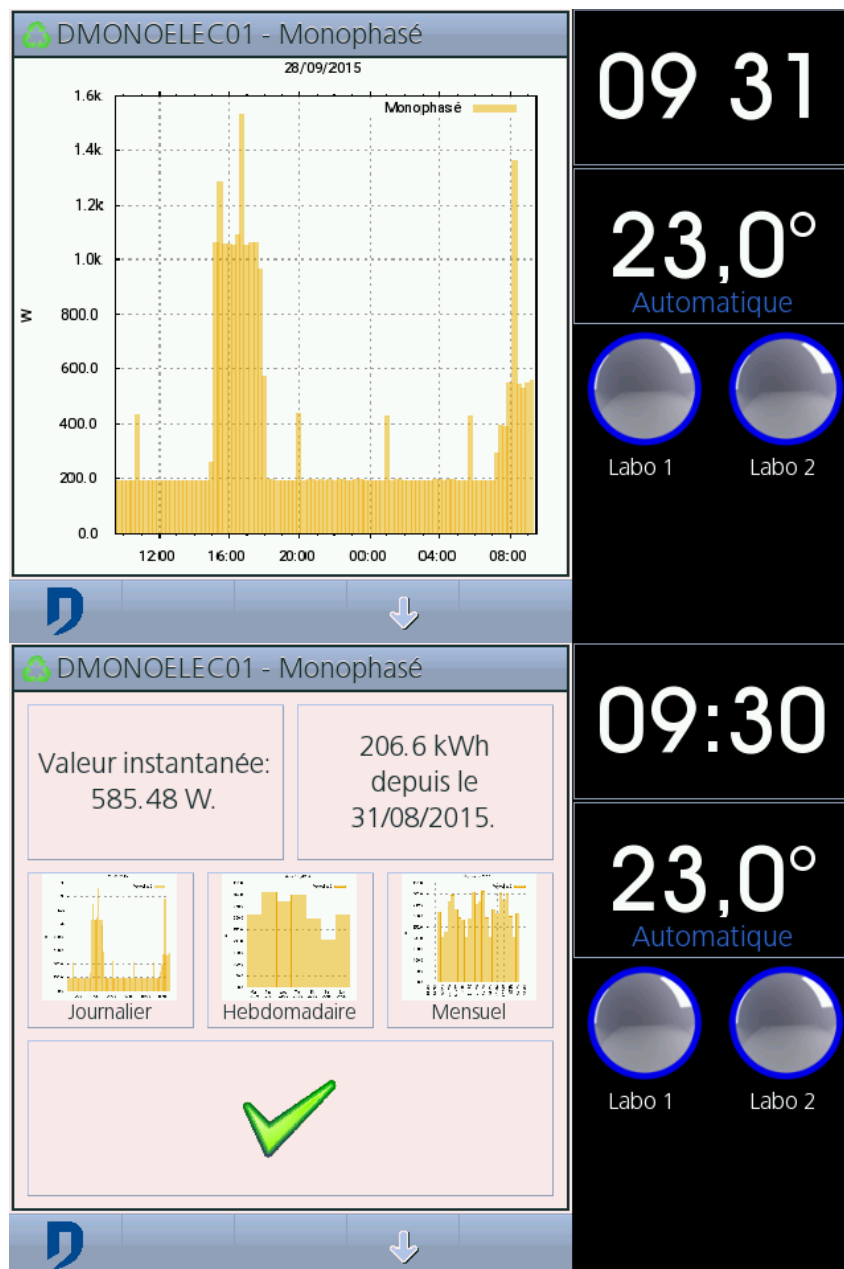
OK

- If you choose to display DMONOELEC input on DTSC02/DTSC04 screen (default behaviour), you will be able to display graphic of logged data.

DTSC02/04 Screenshots

Here is some screenshots of DTSC02/DTSC04 display.





If you have any question, you can contact your Domintell2 commercial contact or Domintell2 technical support at support@domintell.com.