

# CONTROL VISION software

Network  
analysis

DIRIS Am  
DIRIS A20  
DIRIS A40 / DIRIS A41  
Communication interfaces  
DIRIS VISION software  
► **CONTROL VISION software**  
BILLING APPLICATION software

## Functions

**CONTROL VISION** is an metering and monitoring software for DIRIS A20, A40, A41, Am, Ap, M, Mh, C, CC, CM, CMv2 and COUNTIS Ci devices. It operates under a Windows® NT4 (pack 6) or XP environment with a minimal PC requirement: Pentium® III, 512 Mb RAM, 500 Mb of available hard disk space, one or more (RS232 or RS485) series ports, or USB, a 17" VGA 1024x768 screen and a network card with TCP/IP Protocol. Access limited by user password.

## General characteristics

The **CONTROL VISION** software allows:

- remoting configuration of DIRIS and COUNTIS devices,
- displaying all electrical parameters measured, energies, indices, alarms, harmonics and the configuration of all the devices,
- creating readings, backups and automatic print-outs,
- displaying, for DIRIS CM/CMv2 and COUNTIS Ci inputs:
  - table of min. 10P,
  - corresponding load curve.
- displaying historical data for each DIRIS in tabular or graphical format:
  - instantaneous measurements,
  - harmonics,
  - status changing of inputs / outputs.

The **CONTROL VISION** software is available in a multilingual version comprising the following languages:

- english,                      - french,
- german,                      - italian,
- spanish.

## Applications

The **CONTROL VISION** software is designed to communicate with all devices in the installation and create logs based on manual and automatic scanning.

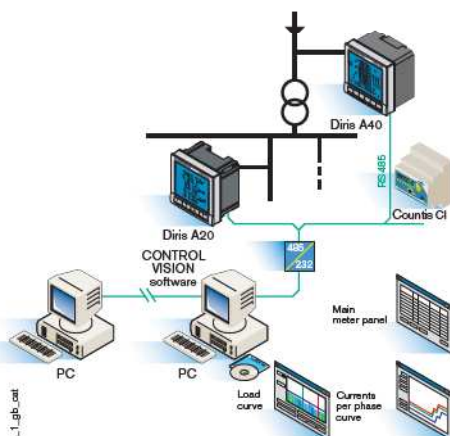
**CONTROL VISION** will display all the electrical values measured and read the total energy consumption. The user can also create logs of several electrical values over a selected time period.

All functions are available whether a single or multiple DIRIS are installed. User will also be able to change the configuration of each device on the network.

The standard communication protocol used by SOCOMEC allows the deployment of the products on the distribution network to be facilitated over time. A first stage consists necessarily of installing a cable suited to the RS485, and even the allocation of available pairs in an existing cable. The ease of integration and modification of the number of products on this RS485 link makes this a long-lasting solution.



diris\_485\_a\_1\_cat



diris\_689\_a\_1\_cat

## References

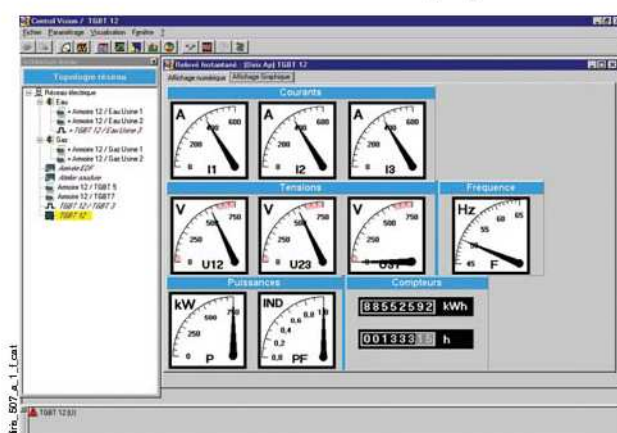
Type	References
CONTROL VISION software	4805 0000
CONTROL VISION software + INTRANET option (Multi user)	4805 0001



**CONTROL VISION  
software**

## Specification

### Instantaneous measurement display



Displaying, either numerical values or a graphical representation:

- currents,
- Ph-Ph voltages,
- powers,
- frequency,
- active energy and time meter (according to DIRIS) of the selected DIRIS.

Alarm levels (programmed in the device) are indicated in red.

The parameters to be displayed can be customised.

All screens are refreshed automatically.

### General reading of measurements

Paramètre	Ex + (kWh)	Ex - (kWh)	Ex (kVAh)	Cpt 1	Cpt 2	Cpt 3
<b>Eau</b>	0	0	0	4 971 296 L		
• Armcore 12 / Eau Usine 1				Eau Usine 1 : 3241 L		
• Armcore 12 / Eau Usine 2				Eau Usine 2 : 330 L		
• TGBT 12 / Eau Usine 2				Eau Usine 3 : 4 967 724 L		
<b>Gas</b>	0	0	0	5 136 m3		
• Armcore 12 / Gas Usine 1				Gas Usine 1 : 1 188 m3		
• Armcore 12 / Gas Usine 2				Gas Usine 2 : 1 028 m3		
Armcore ECF	93 828	83 328	0			
Atelier soudure	89 318	22 572	0			
Armcore 12 / TGBT 5	292					TGBT 7 : 242 kWh
Armcore 12 / TGBT 7						
TGBT 12 / TGBT 3	0					
TGBT 12	88 552 488	1 039 218	88 910 345			

Energy consumption table or metered pulses of all the DIRIS / COUNTIS Ci present on the network.

Readings include, the active positive and negative energy (kWh), the positive and negative reactive energy, the apparent energy (kVAh) and the pulses metered by the devices' TOR inputs. These pulses can be displayed by (name, weight and units).

These values can also be grouped together by type (Electricity, Water, Gas...).

Printing and Exporting to Excel file can be automated (e.g. one file per day edited at a fixed time).

Screen data can be printed and extracted manually at any time.

### Monthly general reading of COUNTIS Ci

Paramètre	Janvier	Février	Mars	Avril	Mai	Juin	Juillet
<b>Eau</b>	5 L	0 L	0 L	0 L	0 L	0 L	0 L
• Armcore 12 / Eau Usine 1	3 L	0 L	0 L	0 L	0 L	0 L	0 L
• Armcore 12 / Eau Usine 2	2 L	0 L	0 L	0 L	0 L	0 L	0 L
<b>Gas</b>	7 m3	0 m3	0 m3	0 m3	0 m3	0 m3	0 m3
• Armcore 12 / Gas Usine 1	8 m3	0 m3	0 m3	0 m3	0 m3	0 m3	0 m3
• Armcore 12 / Gas Usine 2	1 m3	0 m3	0 m3	0 m3	0 m3	0 m3	0 m3
Armcore 12 / TGBT 5	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh
Armcore 12 / TGBT 7	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh

Monthly meter readings of all COUNTIS Ci present on the network. COUNTIS Ci memorises monthly consumption (energy or pulse) via one of 7 inputs, the software retrieves the values and allocates into the allocated "group".

Screen data can be printed and extracted manually at any time.

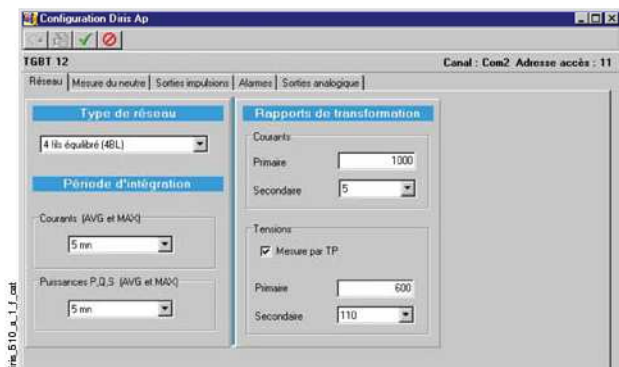
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## ► Specification

### Configuration of the devices



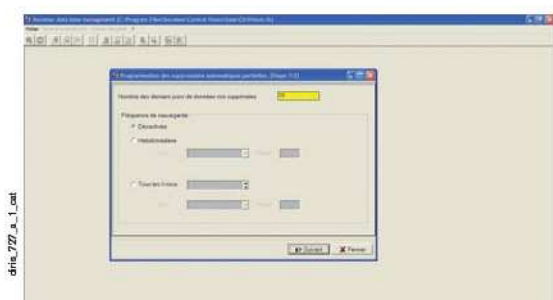
It is possible to display and configure the parameters of the devices on the network. DIRIS / COUNTIS.

This is a single screen with changes made via password protection.

Parameters displayed include:

- type of network,
- TC and TP ratio,
- weight of pulse outputs,
- levels and assignment of the alarms,
- assignment of the 4/20 mA outputs and parameters,
- assignment and weight of the TOR inputs.

### Managing the database (DMT)



The DMT software (supplied with CONTROL VISION) is a database management tool. It helps ensure by automatic or manual action (complete or partial database backup and partial database deletion), thereby providing a database suitable for the efficient operation of CONTROL VISION.

### General reading of the instantaneous measurement

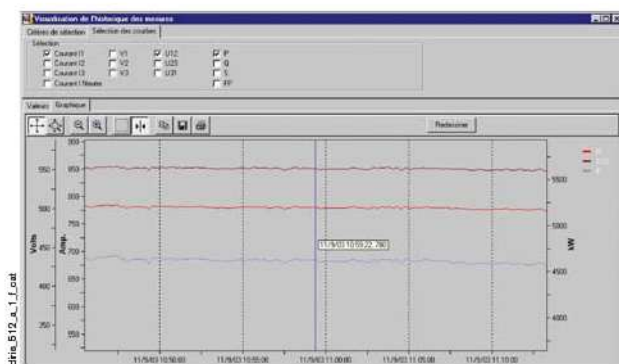
Nom	I1 (A)	I2 (A)	I3 (A)	IM (A)	V1 (V)	V2 (V)	V3 (V)	U12 (V)	U23 (V)	U31 (V)	P (kW)	Q (kvar)	S (kVA)
Arrivée EDF	1157	0	0	1157.5	228.62	228.89	228.81	397.82	397.26	397.62	0	265.5	265.5
Alarmer 8	736	0	0	736	229.4	229.1	229.5	397	397.1	397.4	-168.3	13	168.8
Alarmer 1000V	231.7	0	0	232.3	228.04	228.43	228.93	397.82	397.73	398.26	0	53.3	53.3
Chaudière	236.2	0	0	-	-	-	-	0	0	0	-63.11	-2.78	63.18
TGBT 12	392.5	392.5	392.5	0	2153.13	1676.36	2149.28	584.13	580.26	0	2298.38	0	2305.05

Displayed in numerical format:

- currents,
- voltages,
- powers,
- frequency,
- power factor,
- electrical value in the alarm.

Screen data can be printed and extracted manually at any time.

### History of device measurements



CONTROL VISION records the electrical parameters of the devices defined under "permanent scanning" into a central database.

The scale of the graphical display can be selected and specific areas enlarged.

Placing the cursor over the record displays the exact value at the selected point.

All colours can be customized to complement the Windows environment.

Screen data can be printed and extracted manually at any time.



## General harmonics readings



- the 3 currents and neutral (on the basis of the network type),
- the simple and Ph-Ph and Ph-N voltages (on the basis of the network type).

Screens are refreshed automatically.

iris 514 a 1 f cat

drive 515 a 1 f cat

## día 726 a 1 cat

Installation of a memory module required.