



# Устройства управления PLAN WATCH PRO

## Технические характеристики

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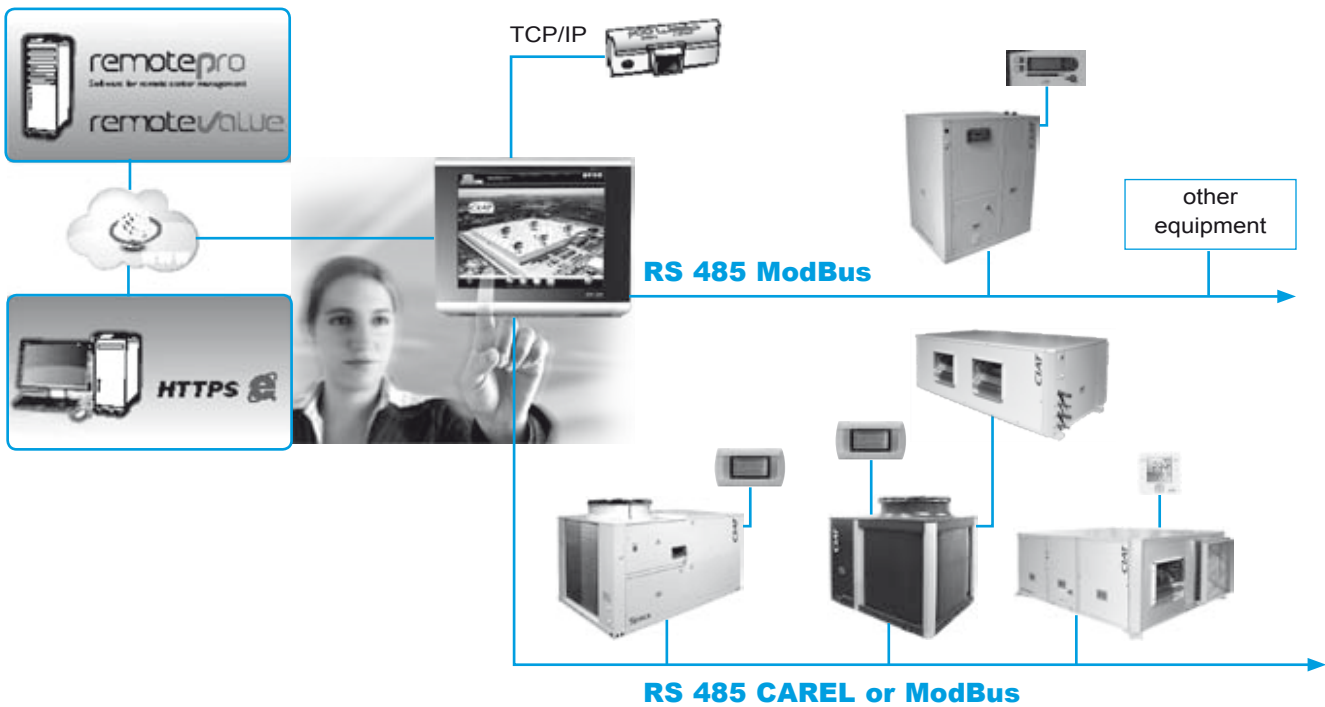
сайт: [www.ciat.nt-rt.ru](http://www.ciat.nt-rt.ru) | эл. почта: [cta@nt-rt.ru](mailto:cta@nt-rt.ru)

“**Complete supervision for large installations**”



TOUCH version

- Remote control,
- Management of up to 300 units (with a total of 3500 variables),
- Management of alarms, notes and reports on interventions
- Creation of diagrams and reports,
- Scheduling and managing of events and operating scenarios,
- Plan of the installation with location of machines,
- Energy management,
- Analysis of risks and critical monitoring points



**USE**

Preinstalled on a PC, **CIAT PLANTVISOR PRO2 TOUCH** is the solution for the management and supervision of large scale air conditioning installations. It is able to manage installations comprising up to 300 units (maximum total of 3500 variables).

It offers advanced monitoring and maintenance functions, and allows zones and groups to be created to simplify management of the installation. It integrates an installation plan and the list of machines.

**Control for the machines which can be managed:**

- CIATrtc / AVANT Pro / AVANT / AVANT+ / MICROCHILLER: CAREL or ModBus protocol
  - CONNECT2: ModBus protocol only
  - Other equipment (please consult us): ModBus protocol
- Version also available: CIAT PlantVisor Pro2 Box (PC + mouse + keypad and remote screen).

## MAIN FUNCTIONS AVAILABLE:



### ■ Remote control:

A simple internet connection gives access to all the system information. With a physical IP address in PlantVisor Pro2, it is possible to set up a connection via Internet Explorer using the address <https://xxx.xxx.xxx.xxx/PlantVisorPRO>. The online interface, the same one used by the local PlantVisor Pro2 user, enables complete configuration of the installation, from the office or any other location. This remote control ensures effective offsite maintenance.

The installation is always under your control, and can be managed with clicks of the mouse in any location, without having to go on-site.

To control multiple sites remotely, there are special tools dedicated to centralised management, such as RemotePRO and RemoteValue.



### ■ Management of units:

All the units forming the installation can be quickly configured, by assigning them to defined groups or zones. All the information can be accessed via summary pages on the installation or detailed pages for each unit.



### ■ Management of alarms:

PlantVisor Pro2 logs each alarm event which occurs within the installation, supplying information on the type of alarm, the start and end time and date. Management of alarms comprises three phases: firstly, recognition, followed by a phase of programmed actions (for example, sending of e-mails, test messages, faxes, etc.) and lastly the phase where the event is stored. Different levels of importance can also be defined, based on the type of alarm.



### ■ Creation of diagrams and reports:

PlantVisor Pro2 produces detailed reports and diagrams which can be used to monitor a range of data: temperature, operating status, etc. This is key for analysis and diagnostics in the event of a problem with the controlled variables.



### ■ Event management and planner:

The planner is the PlantVisor Pro2's most powerful function. A series of actions can be scheduled, according to the time/day, for a certain event or for an alarm. These include: printouts, sending of faxes, e-mails and test messages, changing parameters, activating components, sound effects, etc.



### ■ Plan of the installation:

it is also possible to include a PDF or JPG plan of the installation with positioning of the managed units and an LED status: communication OK (green), communication down (grey) and alarm (red). In this way, the user can keep an eye on the installation to ensure everything is under control.



### ■ Energy management:

Integrated management of the installation ensures significant energy savings.

PlantVisor Pro2 offers a series of functions enable the running costs of the installation to be reduced, such as managing lighting, changing night/daytime temperature setpoints, and so on.

### ■ Analysis of risks and monitoring critical points:

PlantVisor Pro2 can produce and log lists of temperatures and alarms for all the supervised units.

### ■ Management of notes:

This function allows information to be stored and an operating log to be created for the installation. This is very handy for maintenance personnel. Any user can enter their own notes, which will be stored with the user's name, the time and the date.

■ **Option**

**ENERGY PACK:**

Licence to activate the CIAT PlantVisor Pro2's ENERGY function, which can be used to manage electricity consumption.

**EXPANSION PACK:**

Licence to activate the function for creating logic units. The various logic units required by the customer are configured in the factory.

**GSM MODEM FOR SENDING TEXT MESSAGES:**

Modem (with no SIM card) for connecting to the phone network which must be installed by the end customer.

**1 I/O MODULE UNIT:**

Module with 4 analogue inputs, 2 digital inputs and digital output for controlling the equipment.



PlantVisorPRO2 box  
Monitor, keypad and mouse optional



PlantVisorPRO2 TOUCH  
Touch screen

**TECHNICAL DESCRIPTION (TOUCH VERSION)**

■ **Main characteristics:**

Internal casing made from galvanised sheet metal, unit made from aluminium alloy with rust protection, polycarbonate front panel.

Touch screen (for TOUCH version only).

Power supply: single-phase 110 to 240V – 50/60 Hz + Earth,

Internal fuse: 2 A. Nominal capacity: 50 W.

Operating conditions: 5 to 45 °C, Protection rating: IP 20

Buzzer for alarms (maximum 80 dB at 10 cm),

Internal modem: PSTN V.92,

CR2032 battery for the CMOS memory

■ **Equipment peripherals:**

Keypads, mouse and DVI for monitor

2 digital inputs: free contacts, Vmax 5 V, Imax 7.5 mA,

3 digital outputs for the relay: 24 V max, 2 A max, SELV as per EN60950-1,

Serial ports:

- 2 RS485: master, optically isolated, 19200 bps, SELV as per EN60950-1,

- 1 RS232: DB9 connector, SELV as per EN60950-1

Connection for GSM modem (optional).

USB ports: (keypad, mouse, printer, RS485 converters, etc.):

2 standard HOST ports, type A connectors on the front panel,

4 standard HOST ports at the rear

2 RJ45 Ethernet ports: FIELD and network (LAN, WAN, Internet),

RJ11 phone line,

Connector for Compact Flash card,

■ **Software characteristics:**

Software available in 14 languages with English remaining the second language for support.

CIAT machine variables available in 3 languages: Spanish, English and French (please consult us for other languages).

The PlantVisor Pro2 allows CIAT units with the following control systems to be integrated into the supervision network: AVANT, AVANT+, AVANT PRO, CIATrtc, µCHILLER2 or CONNECT2.

The CONNECT2 control can only be installed on a line with the ModBus protocol. The other control systems can be configured with the CAREL or ModBus protocols.

The devices included in the system have a factory configuration for alarm priorities, recording frequency and the main page presentation.

The units can be connected to two RS485 ports on the PlantVisor Pro2 using two lines. It is possible to have additional lines by using RS232 RS485 converters on the USB ports.

Four secure access levels are available:

- Administrator (highest level)

- Installer (level 3)

- Maintenance (level 2)

- End user (level 1)

The highest level gives access to all the available functions.



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