

just use it !

CAREL



T e c h n o l o g y & E v o l u t i o n

PlantWatchPRO

CAREL



touch the new concept in monitoring

CAREL, leader in system control and supervision solutions, offers the HVAC/R market a top-of-the-range solution for the monitoring and supervision of small-medium installations: PlantWatchPRO.

Its profound knowledge of HVAC/R applications and extensive experience have allowed CAREL to develop an INNOVATIVE SOLUTION for supervision and monitoring applications, combining technology and aesthetics.

PlantWatchPRO features a large colour touch screen display, with the installation data being available for reference at all times by simply "touching" the icons, or browsing the various pages.

Compact and versatile, it provides installers, store managers, and technical and maintenance personnel complete control over the refrigeration, air-conditioning and heating systems.

PlantWatchPRO is the best solution for the retrofit of existing installations.

PlantWatchPRO guarantees compliance with the HACCP standards by saving the critical system data and exporting reports in various formats.

just use it !

all the technology at a touch

PlantWatchPRO, with its **colour touch screen LCD**, can display all the information on the system at the touch of a finger! No more need for awkward buttons or access to complicated menus to program the unit, today everything is magically simpler and more immediate.

Attractive graphics, pages set out efficiently, clear and complete on-line to guide the user in programming the device and reading the data acquired from the field devices.



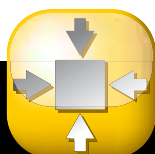
The **scheduler** is used to set notification actions and configure, using the "Guardian" program, the safety of the complete supervisory system. Other features include management of phone and address books for the notification channels (fax, SMS, e-mail and RAS - Remote Access Service). The main functions of the scheduler can be summarised as follows:

- manage and send messages and alarms to different users based on time bands;
- manage scheduled actions, for example lights and defrosts.



touch

all the information is immediately available on the display, at a simple touch



compact

compact solution for service environments, without moving parts



multilanguage

a single solution available in different languages (up to 11)



multiprotocol

integration of instruments, including third party devices, thanks to the embedded Modbus® protocol



The **USB** ports available on the front panel can be used to download reports in Microsoft® Office Excel format for subsequent analysis on a PC, or to import models to connect **PlantWatchPRO** to new CAREL controllers (programmable or parametric) or third party controllers via Modbus®.



PlantWatchPRO produces detailed and complete **graphs** corresponding to the chosen variable. The graphs simplify analysis and diagnostics in the event of incorrect operation of the controlled devices. They also offer the possibility to check the trends in the controlled values with reference to pre-defined thresholds and set points.



WEB
easily connectable to the Internet with its own IP address and web server function



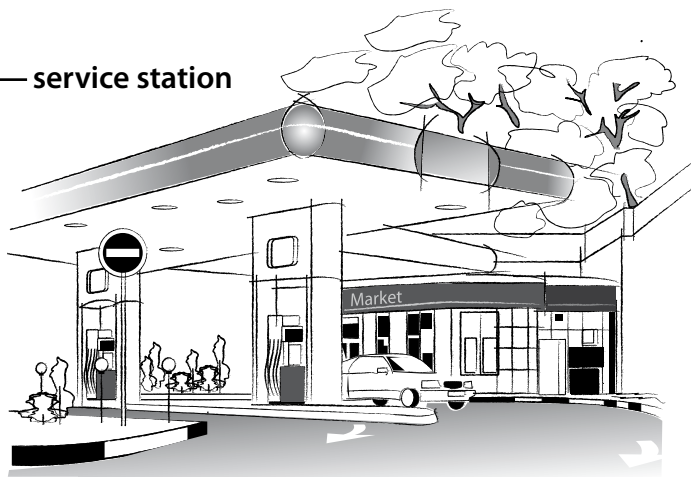
HACCP
alarm management and recording of the critical data based on the standard required by the legislation in force



IP65 front panel protection: the high index of protection (IP65) means **PlantWatchPRO** can also be installed in humid and aggressive environments. Special care has been paid to the creation of the front panel with integrated gasket and transparent polycarbonate cover.

The pc-free solution for monitoring small-medium installations

service station



PlantWatchPRO is the ideal solution for monitoring the temperature and managing the alarms on the refrigeration utilities in small installations, such as service stations or small stores in general (discount stores, local shops).

The GSM modem can be used to send alarm signals via SMS to the service network.



Refrigeration utilities



Energy measurement

small supermarket



Refrigeration utilities



Compressor racks



Energy measurement

PlantWatchPRO is an excellent solution for medium-sized supermarkets where the control and supervision requirements are the same as for larger installations. **PlantWatchPRO** can integrate the monitoring not only of refrigeration units, but also the air-conditioning and power measuring systems.

PlantWatchPRO allows temperature monitoring in compliance with the HACCP standards, and indeed alarm management and the possibility to connect to the remote service centre are standard functions available in the product.

PlantVisorPRO Remote control and supervision centre



PlantVisorPRO
Remoto

control centre

Da **PlantVisorPRO Remoto** can be used to access one or more local sites running **PlantWatchPRO** or **PlantVisorPRO** to check alarm situations, view graphs, set parameters and print reports.

The alarms are immediately managed by the **PlantVisorPRO Remoto** system, and each local service centre is immediately notified via fax or SMS so as to ensure optimised management of the service operations.



large supermarket

PlantVisorPRO is the ideal solution for large installations with a considerable number of number of utilities in the field and extensive control requirements.

PlantVisorPRO is very simple to use and extremely powerful as regards alarm management, the monitoring of controllers in the field, and graphs and reports in compliance with the HACCP standards.



Refrigeration utilities

Compressor racks

Air-conditioning

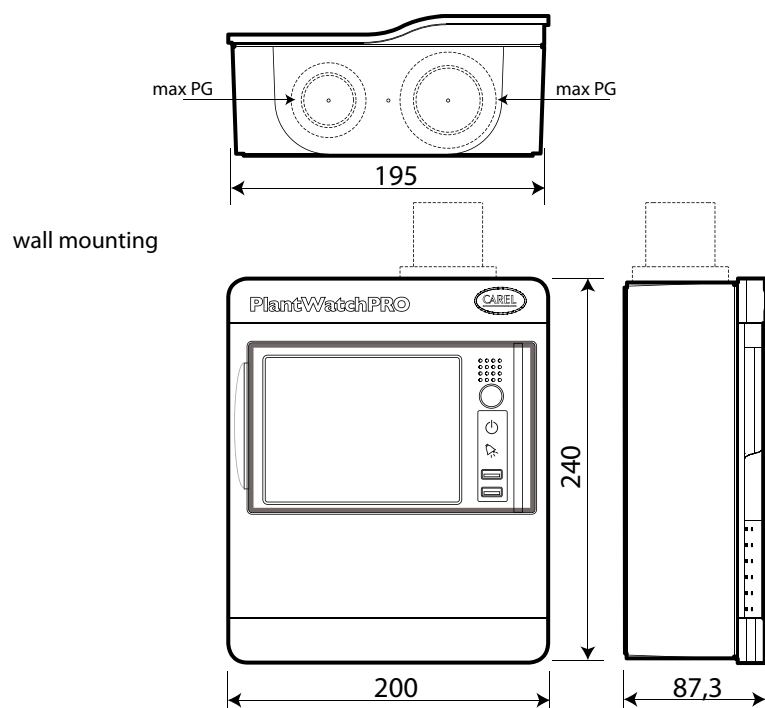
Electrical loads



Technical specifications

Power supply	90 to 240 V, 50/60 Hz
Power input	6.7 W (typ), 9 W (max)
Operating conditions	5T50 °C, 20 to 80 % rH
Storage conditions	-20T60 °C, 20 to 80 % rH
Index of protection	IP65 (with cover closed)
Display resolution	240 x 320 pixels
Type of LCD	5.7" TFT, 262144 colours
Other functions on board	RTC, Watchdog (1000 ms), JTAG
Digital outputs	2 relays N.O., 5 A 30 Vdc / 250 Vac 1 relays N.C., 6 A 250 Vac
Serial ports	2 RS232 serial ports on RJ45 connector 1 RS485 serial port, master, hd, opto-isolated, 19200 bps 1 RS485 serial port, master, hd, opto-isolated, 19200 bps, Modbus® RTU
Digital inputs	2 opto-isolated inputs @300 baud max
Backlighting	white LEDs
Buzzer	Max 80 dB at 10 cm
USB ports	2 standard HOST ports type A connection on front 1 standard HOST port type A connection, internal
Internal modem	socket modem, PSTN V.34/33.6K data rate
Electromagnetic compatibility	IEC EN 55022 (1999) IEC EN 55022/A1 (2001) IEC EN 55022/A2 (2003) IEC EN 55024 (1999) IEC EN 55024/A1 (2002) IEC EN 55024/A2 (2003)
Environmental pollution	conforms to RoHS directive
Cover material	transparent polycarbonate

Dimensions (mm)



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