CAREL

pChrono
The ideal partner for managing lighting and non-food devices

pChrono is the innovative CAREL controller for managing supermarket lights. It can also be used to manage other loads that require precise and customised scheduling. pChrono is completely integrated into the PlantVisorPRO supervisory system

Lighting management

Scheduling with programmed on-off times. Up to three daily time bands are available, with easily configurable exceptions. Management either by scheduling or using twilight or brightness sensors.

Timed device management

pChrono manages any type of device that can be controlled by time band, such as extraction fans, ovens, air curtains, etc.

Pump management

Possibility to manage up to two pumping units, with rotation by time or on call. Integration of additional protection functions such as thermal overload, frost protection, etc.

10A power socket management

Up to ten power sockets can be managed with on/off wireless control, monitoring power and energy; useful for scheduling vending machines, printers, etc.

Universal functions

pChrono features up to five fully-configurable functions that can be used to meet all specific site requirements.

The energy that's needed, only when it's needed …

pChrono:
- Eliminates wasted energy
- Reduces running costs
- Increases integration of non-food devices

carel.com

Example diagram

Modbus® RS485   communication

RS485 Supervisor

Access Point

10A power socket ...x 10

Temperature and humidity probe ...x 3

Brightness sensor ...x 5

Access Point

Router bridge

1 pCOᵉ   3 pCOᵉ

2 pCOᵉ

...up to 10 devices

4 pCOᵉ   5 pCOᵉ

PlantVisor PRO

Modbus® RS485

equipment

...up to 20 devices

some equipment managed

lights | vending machines | printers | drinking fountains | air curtains | electrical appliances | extraction fans
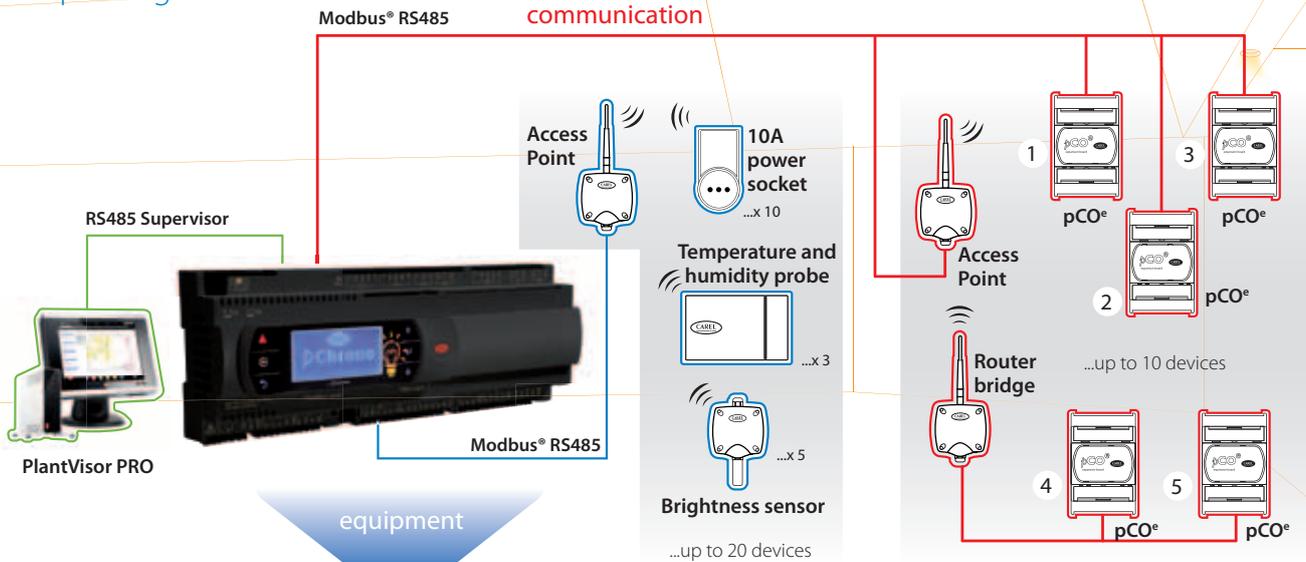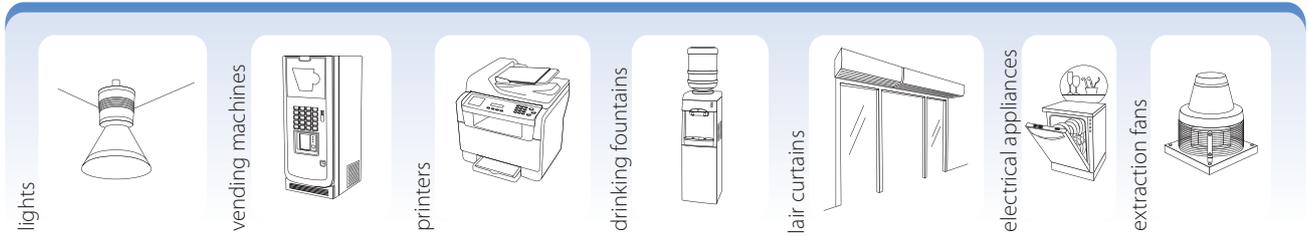
Part numbers

Dimensions	P/N	Description
	PCH550S31UB00	pChrono small, built-in display, optically-isolated RS485, up to 8 direct loads (*)(*)
	PCH550L31UB00	pChrono large, built-in display, optically-isolated RS485, up to 18 direct loads (*)(*)

(*)
• Both products are designed ot manage pCOᵉ expansion cards and wireless devices;
• Dedicated web pages are available on the PlantVisorPRO supervisory system.

Energy saving
Easy to install and configure for significant reductions in energy costs.

Integration
Integration of loads that require precise and dedicated scheduling.

Easy to use
Parameter setting is are easy and intuitive, assisted by the PlantVisorPRO supervisory system that features a dedicated graphic interface with excellent visibility.