

## CAREL







# SI-FALCS PILSOFIE SOLUTION OF THE SOLUTION OF

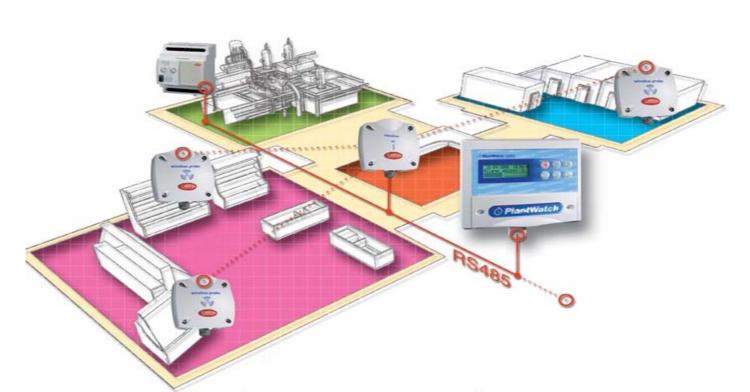
New solution for the electronic controllers to simplify the procedures required to adapt the systems to the food

safety and hygiene





▶ It's a new product that completes the Carel retrofit solution for the monitoring and supervision.





→ It is a family of products: Trasmitter – Reciver.





→ It permits to measure the temperature in every showcase, to monitor the defrost status and any alarms.



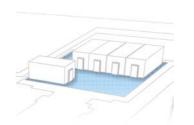


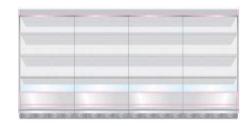
- •reduces and simplifies the connection, so reducing the global cost
- •offers a valid support for the monitoring and HACCP system
- easy to install system with IP65 protection
- •long life, 5 years with the same battery
- •total compatibility with PlantWatch and PlantVisor



New but also old installations: thanks to the possibility of the wireless installation you can use and install it everywhere without problems

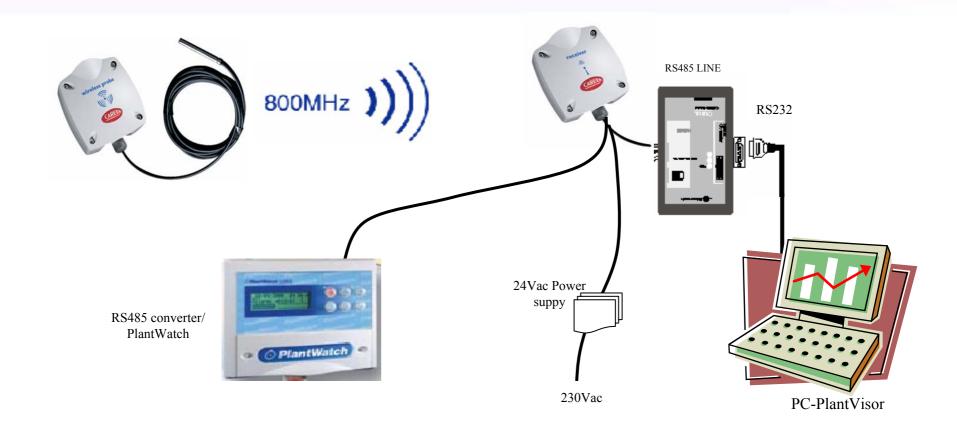
- showcases
- cabinets
- cold rooms

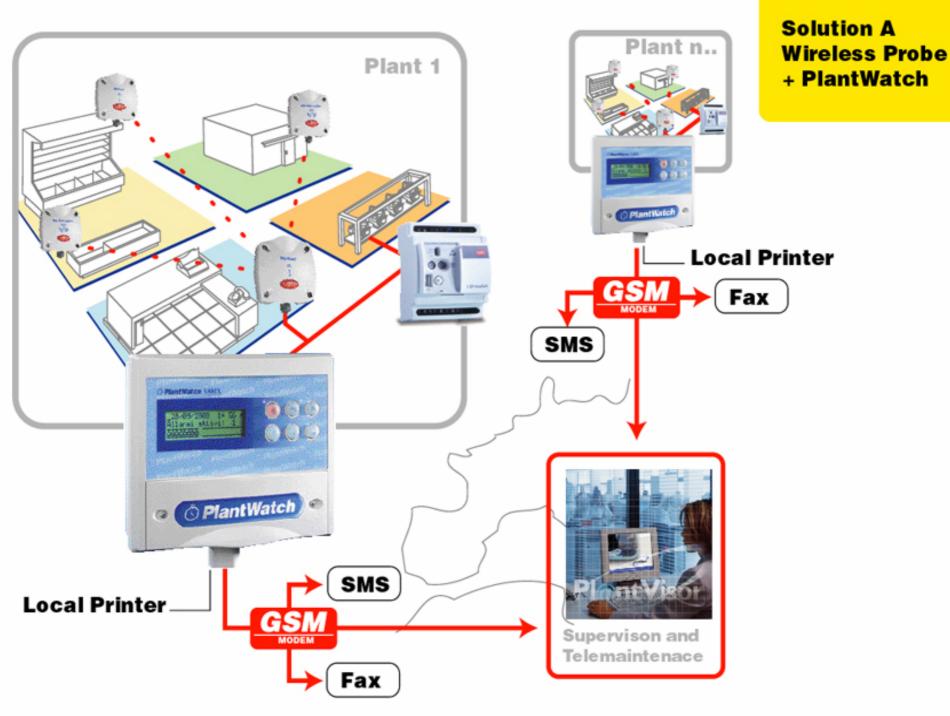




In every place – from supermarkets to little systems - where you need a telemaintenance system and where you want to comply with the HACCP standards









IOR0002400 Receiver power output RS485

- Radio receiver with 24Vac supply and

ASWT013000 Probe transmitter– radio probe with 2 analog inputs and 2 digital inputs with battery power supply



**→** The first one is for the usual thermostat regulation (S1)

**▶** The second one is the defrost-end probe (S2)



· NTC\*WP00:

Range from -50 to 105°C IP67 Dim. 6 x 40mm



NTC\*HP00:

Range from -50 to 50°C IP68 Dim. 6 x 15mm





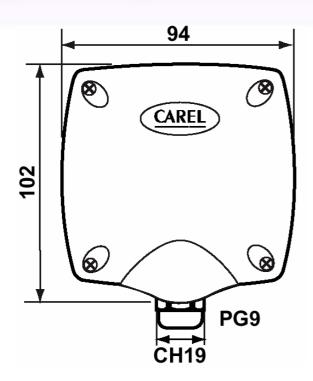
**→** The first one is for the ON/OFF of the showcase

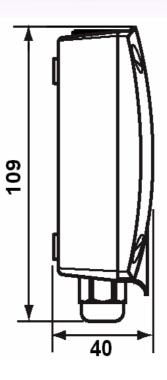
The second one is the defrost-end digital input



- → Max number of Wireless Probes managed: 20
- **▶**Power supply Receiver: 24Vac ±10% 50/60Hz
- **▶**Power supply transmitters: 3V Li battery
- ▶Length of the battery in normal operating conditions: 5 years
- **▶**Frequency RX: 869,850MHz
- **▶**Operating condition range: from –20 to +55°C
- **▶**Connection to the supervisory system by the RS 485

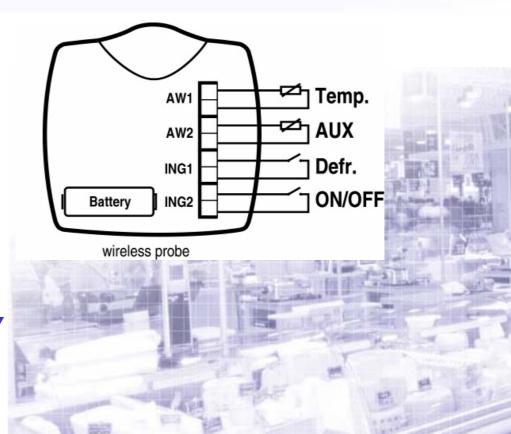
### User Interfaces and dimensions in the continuer of the co







- 2 NTC probes (standard Carel)
  - **Control probe**
  - Auxiliary or defrost probe
- 2 digital inputs
  - **Defrost status**
  - **ON/OFF** status
- long life battery power supply 3.
- transmission frequency 800Mhz compatible in all



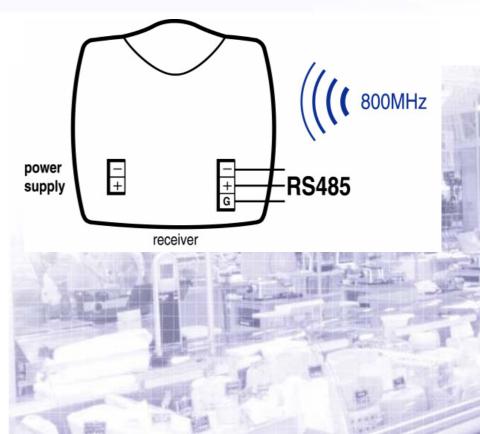


- → It gathers the data from the temperature probes and the "ON/OFF" statuses of the switches connected to its inputs
- → The wireless transmission grants a maximum capacity of 50m in ideal environment conditions.
- ➡ It also signals possible anomalies (flat battery or temperature probes malfunction) to the receiver which connected to the supervisor allows to intervene with a quick maintenance.



### Future:

- 1. Possibility to connect up to 20 wireless probes
- 2. Maximun distance from the probe 50m
- 3. RS485 to connect with the supervisor system
- 4. High temperature management, low temperature and power fault alarm





→ The reception of the signal from the wireless probes occurs in accordance with a coding that allows to recognize every single wireless probe, identified by a single serial number.

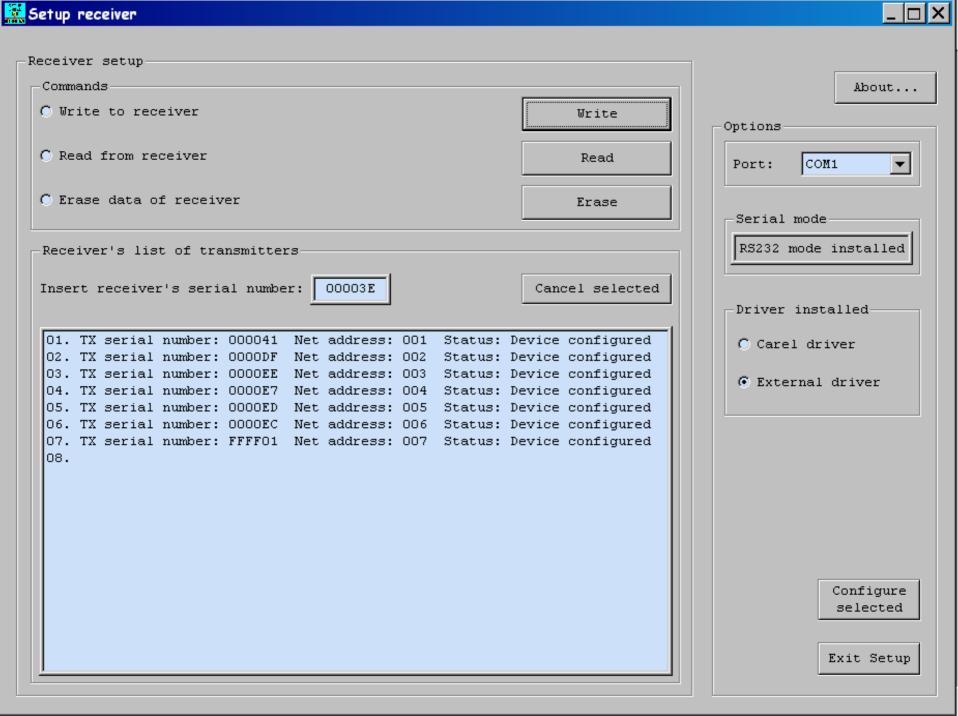
→ The receiver allows to detect and interpret the data coming from the probes and to turn them into the format compatible with Carel supervisor.



>Set up the software Wireless Probe - supplied by Carel - on a PC

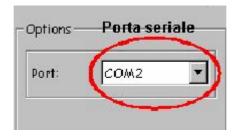
Connect the cable to RS485 in the 3-way vertical connector placed on the left of the receiver and to the PC parallel port

>Start-up the configuration software "wireless probes"

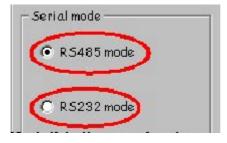




1) Select to which serial port the receiver is connected



2) Select the network converter type connected between the serial port and the receiver





In this window, it is possible to select: write new device into EEPROM; read devices from EEPROM and erase receiver's EEPROM



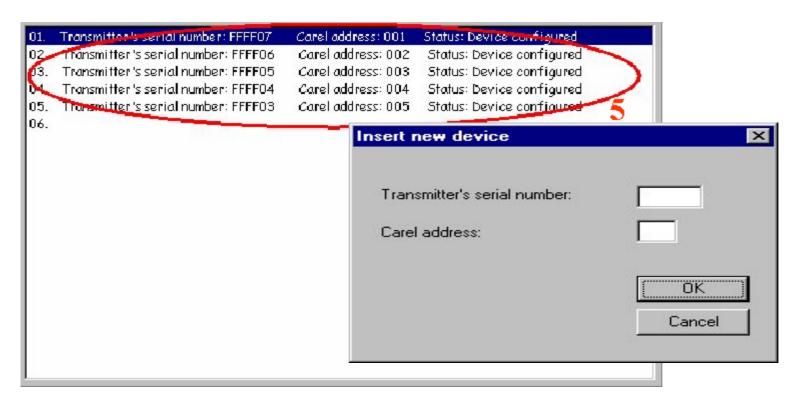


4) Insert the receiver's serial number in the proper section of the configuration software



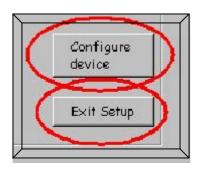


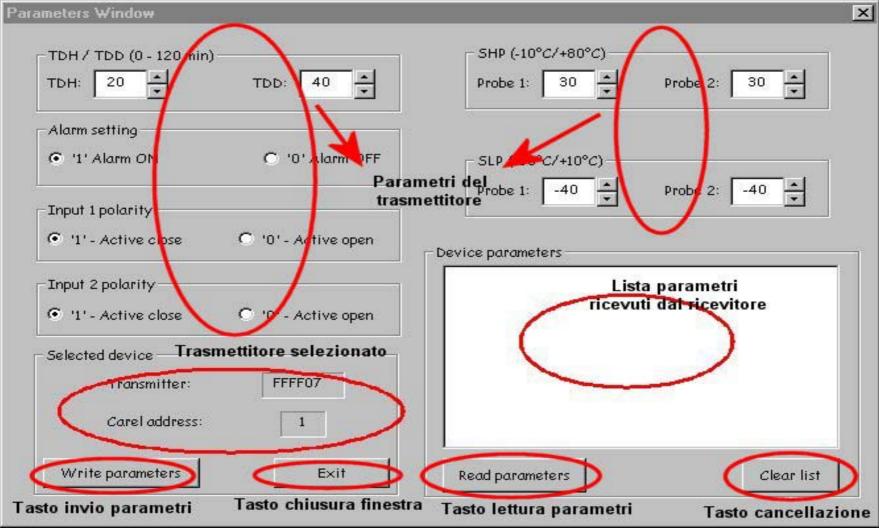
5) Insert the transmitter's serial number/s that the configured receiver has to recognise and their reading address





Program the probe and digital inputs parameters after having selected the transmitter on which you have to make the operation





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Variables	Туре	Value	Reading/writing	Remarks/limits
Probe 1	ANL	1	Reading	
Probe 2	ANL	2	Reading	
High temperature alarm threshold for probe 1	ANL	3	Reading/writing	-10/+80
High temperature alarm threshold for probe 2	ANL	4	Reading/writing	-10/+80
Low temperature alarm threshold for probe 1	ANL	5	Reading/writing	-50/+10
Low temperature alarm threshold for probe 2	ANL	6	Reading/writing	-50/+10
High temperature alarm delay	INT	1	Reading/writing	0-120 minutes
Defrost alarm delay	INT	2	Reading/writing	0-120 minutes
Dig Inlet 1	DIG	1	Reading	1=open 0=closed
Dig inlet 2	DIG	2	Reading	1=open 0=closed
Low battery alarm	DIG	3	Reading	1=low battery
Faulty probe alarm (NTC)	DIG	4	Reading	1=a1 arm
High temperature alarm for probe 1	DIG	6	Reading	1= alarm
High temperature alarm for probe 2	DIG	7	Reading	1= alarm
Low temperature alarm for probe 1	DIG	8	Reading	1= alarm
Low temperature alarm for probe 2	DIG	9	Reading	1= alarm
High temperature alarm enabling	DIG	10	Reading/writing	1=enabled
Digital inlet polarity 1	DIG	11	Reading/writing	1=active close
Digital inlet polarity 2	DIG	12	Reading/writing	1=active close
Long defrost alarm	DIG	13	Reading	1= alarm





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