

Chillventa Specialist Forums 2022 **Chillventa Fachforen 2022**

**CONNECTING
EXPERTS.**



CHILLVENTA



iJW:

the Refrigeration Controller for Smarter Field Commissioning

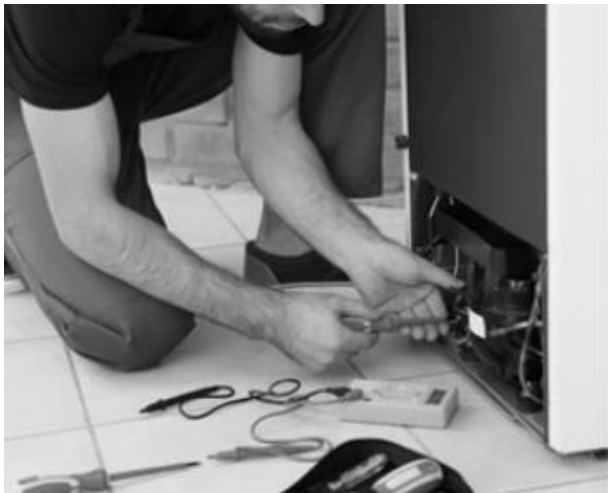


DRIVEN BY
THE FUTURE

Sustainability in action

Stefano Soggia
10/2022

Refrigeration installer tasks



***Service,
replacement on field***



***New installation or new
control panel solution***

Refrigeration controllers available through
Refrigeration Wholesalers channel

Main problem for installers: time

- Receive an **URGENT** call from an end-user
- **MOVE** on-site to check
- **KNOW** how to interact with the device and **UNDERSTAND** the problem
- **GO BACK** to get the spare parts needed
- **MOVE** again on-site to **FIX** the problem
- **RE-START** the device and **VERIFY** the proper functioning



Commercial refrigeration trends



- **Usability:**
time-saving for both installers and end-users



- **Connectivity:**
 - to more usable interface
 - to a local / remote monitoring system



- **Innovation & Design:**
good looking, smart, suitable for the majority of the applications



The Refrigeration Controller for Smarter Field Commissioning

Enabling quick configuration and service

iJW, main features



Main features

WIDE APPLICATION RANGE



- **2 / 4 / 6 relays models**
- **Small and Large format**
- **NTC, PTC, PT1000** compatibility
- **HUMIDITY** management (optional)

EMBEDDED CONNECTIVITY



- **BLUETOOTH** embedded (optional)
- **NFC** always available
- **RS485 - Modbus** (standard)
- **RS485 - Carel** (dedicated model for retrofit)

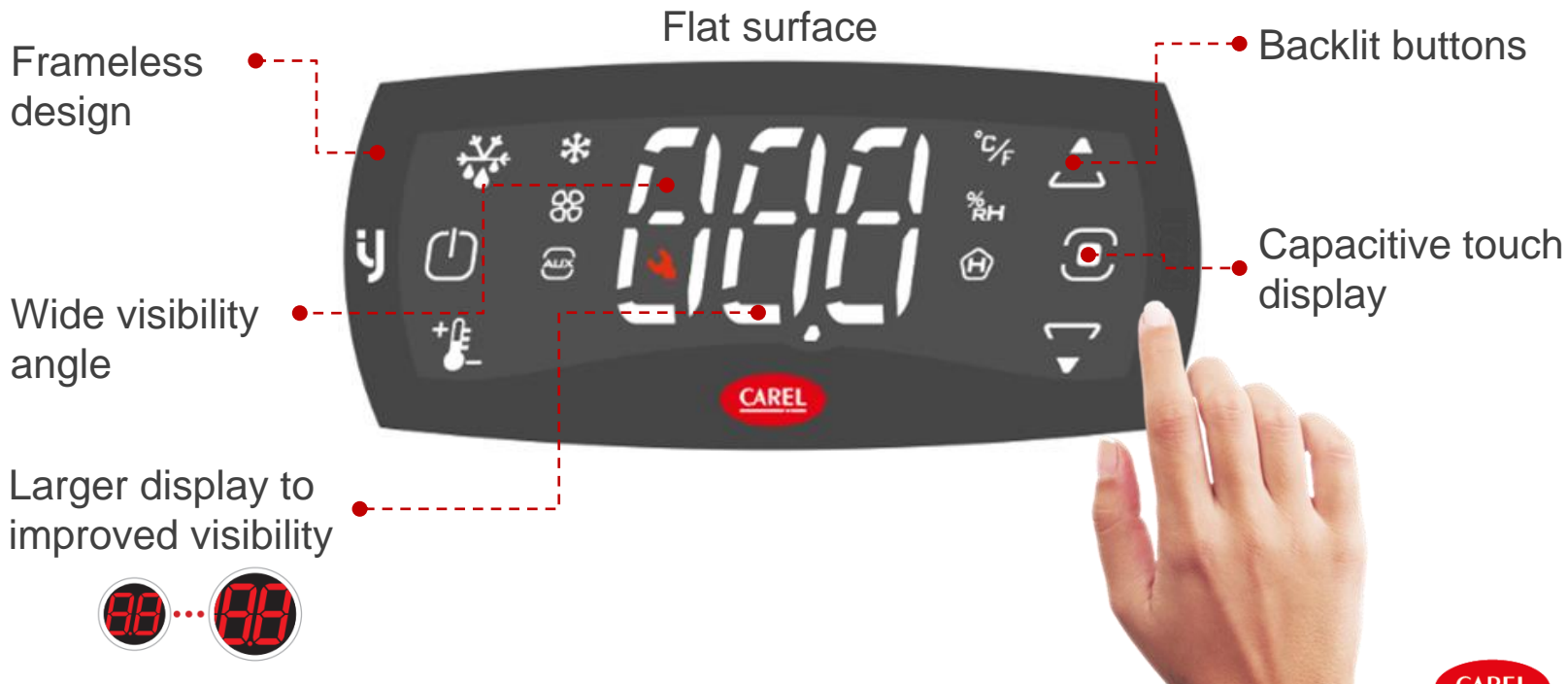
ENHANCED USABILITY



- Dedicated **installer APP** with **Wizard** for smart commissioning
- Dedicated **end-user APP**, basic functioning, error-proof, for **HACCP** management
- **simplified interaction** with customizable buttons for direct functions
- simplified **documentation access** for installers on field

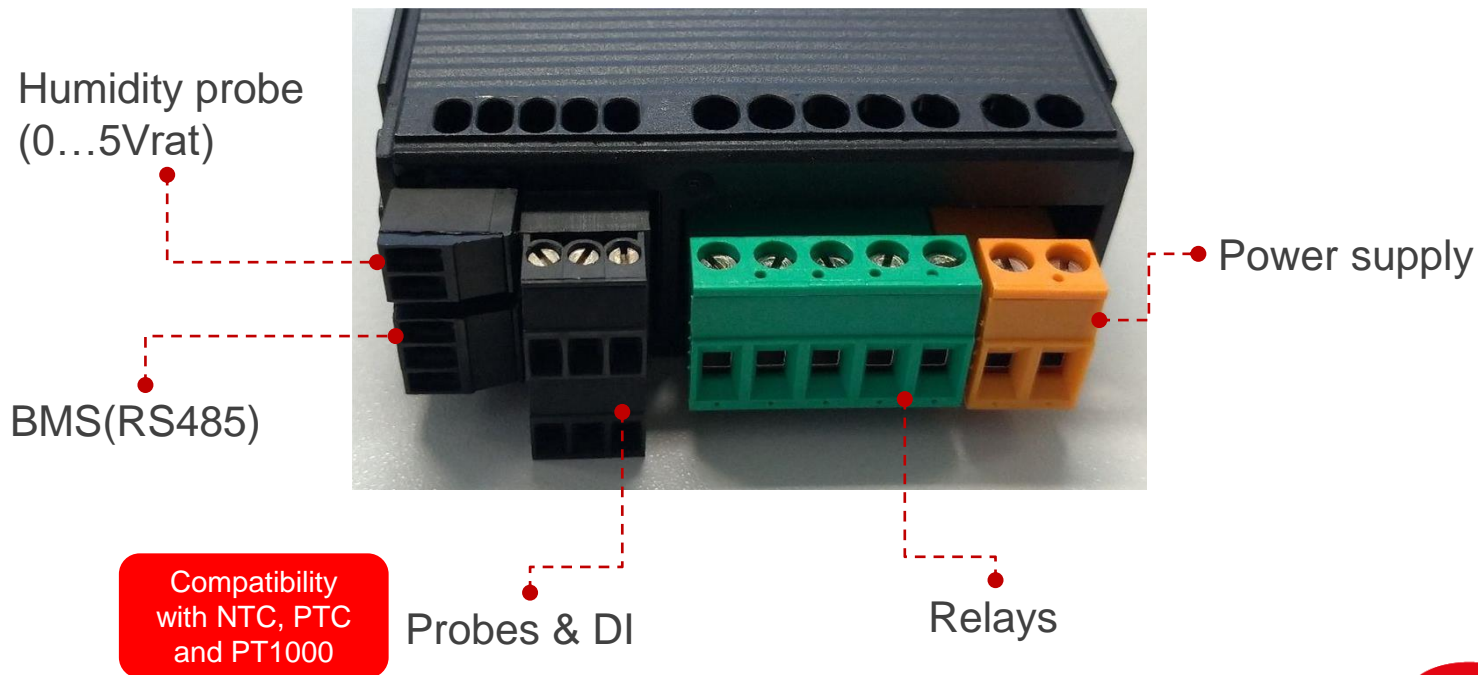
Touch technology

Simplified display with direct access to main functions



Simplified cabling

Removable connectors for probes, loads and TTL or BMS



Value proposal



Peace of
Mind

No brainer choice for end-user

- **Easy interaction** by direct-commands (setpoint, on-off, defrost)
- **Simplify HACCP** day-by-day activity through dedicated end-user APP **CONTROLLA**
- Enable local/remote monitoring (embedded BMS on dedicated p/ns)



Saves time on field for installers

- **high usability** (standard size: 71x29mm small / 138,5x29mm large, removable terminals)
- **easy commissioning** (simplified button interface / multi-language quick guide / multiple parameters pre-sets / configuration wizard through **APPLICA**)



Optimise activities for wholesalers

- **Lower stock complexity** with few p/n range
- **Recognizable products** (new package label with enhanced informations), covering the majorities of applications, both new or retrofit (monitoring in both Carel/Modbus protocols, RTC, humidity management)

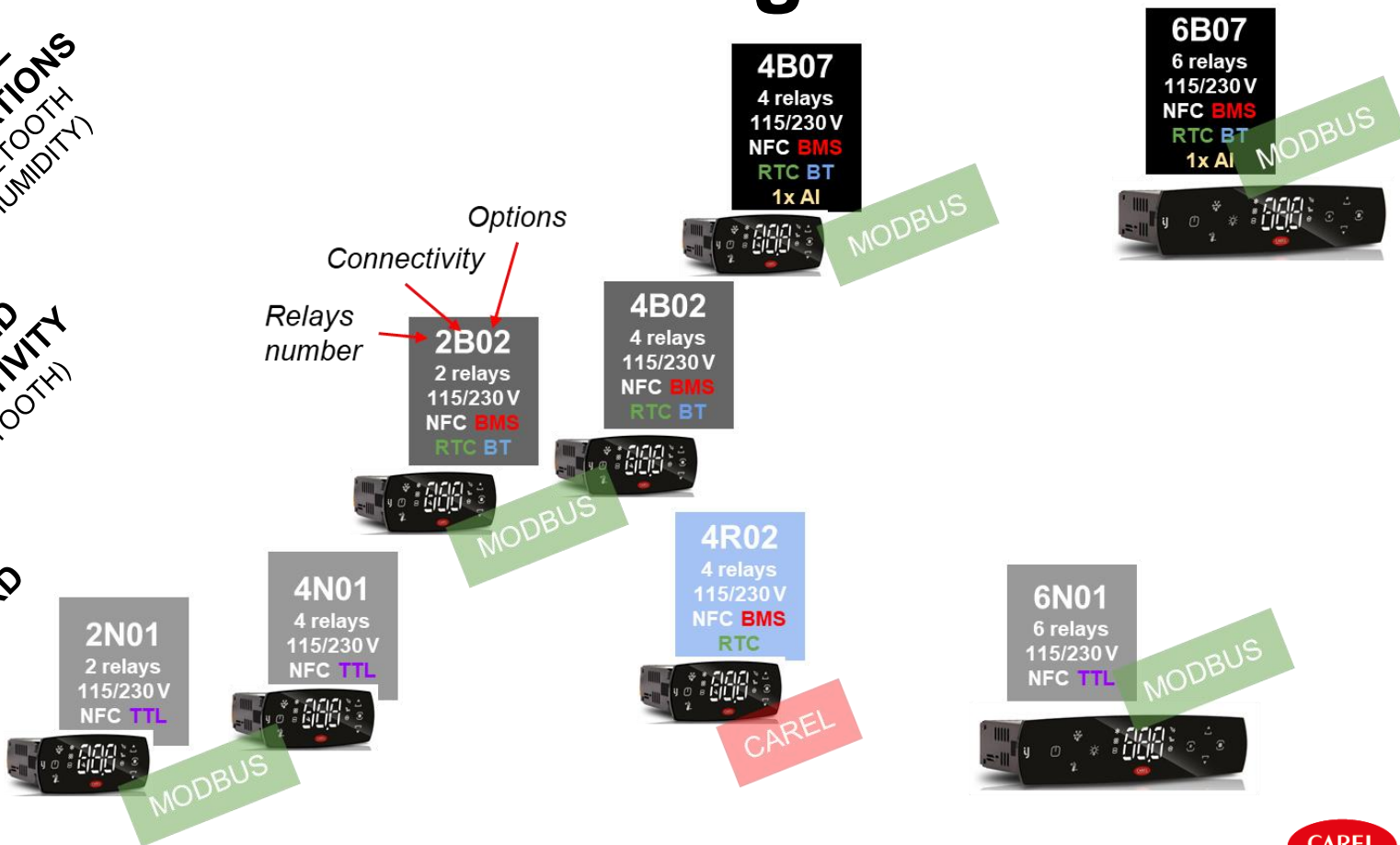
iJW range

SPECIAL APPLICATIONS
(BLUETOOTH + HUMIDITY)

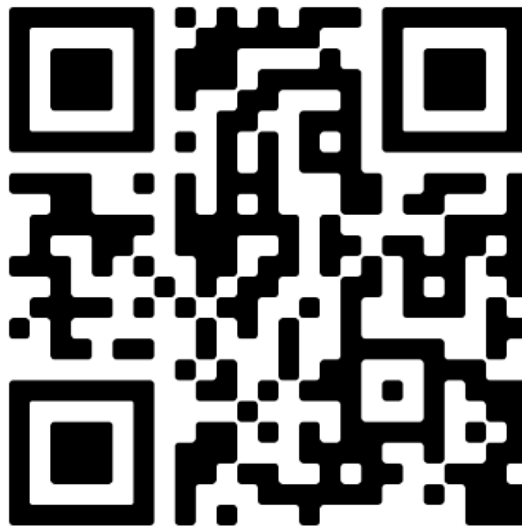
ADVANCED CONNECTIVITY
(BLUETOOTH)

STANDARD

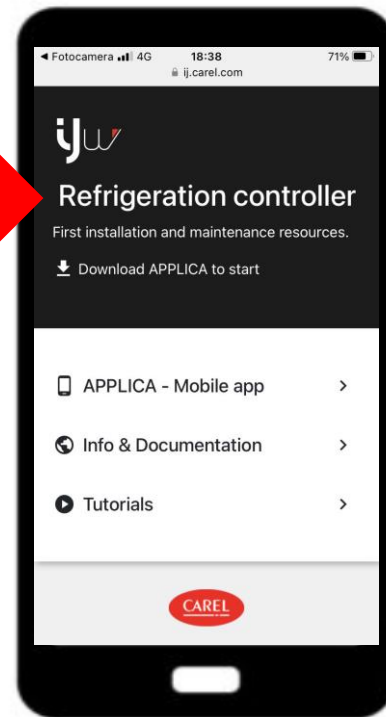
Options
Connectivity
Relays number



INSTALLER on-field support



<https://ij.carel.com/ijwresources.html>



APPLICA - Configuration wizard



APPLICA



Wizard available
both through:



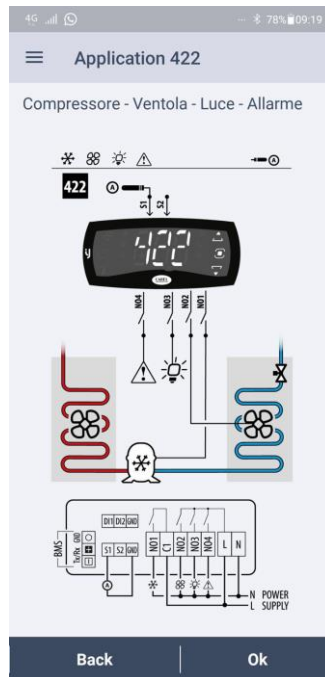
Configuration wizard [2/6]

Application? Refrigerazione con sbrinamento a fermata

Humidity management? No

Digital input configuration? None

Back Next



Configuration wizard [4/6]

r1 - Minimum set point -50 °C

r2 - Maximum set point 50 °C

rn - Dead band 4 °C

rd - Temperature control differential 2 °C

St - Temperature control set point 50 °C

r30 - Operating mode Direct with defrost

d6 - Display on terminals during defrost 1

d1 - Maximum interval between consecutive defrost 8 h

dP1 - Maximum 45 min

Back Save Next

Configuration wizard [5/6]

Export wiring diagram

Export parameters

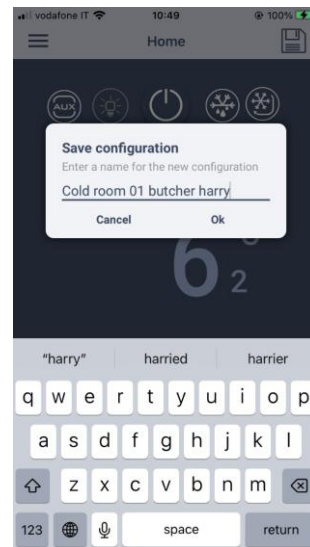
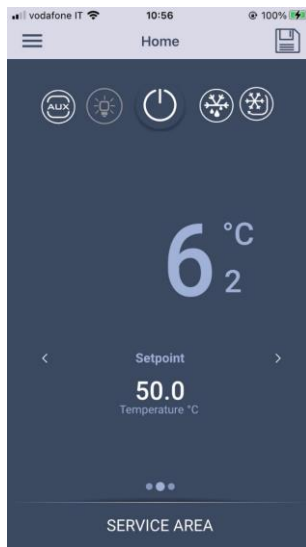
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APPLICA - Functionalities





INSTALLER

- Direct control
- Load test
- Live trends
- Manage configurations



NFC vs Bluetooth

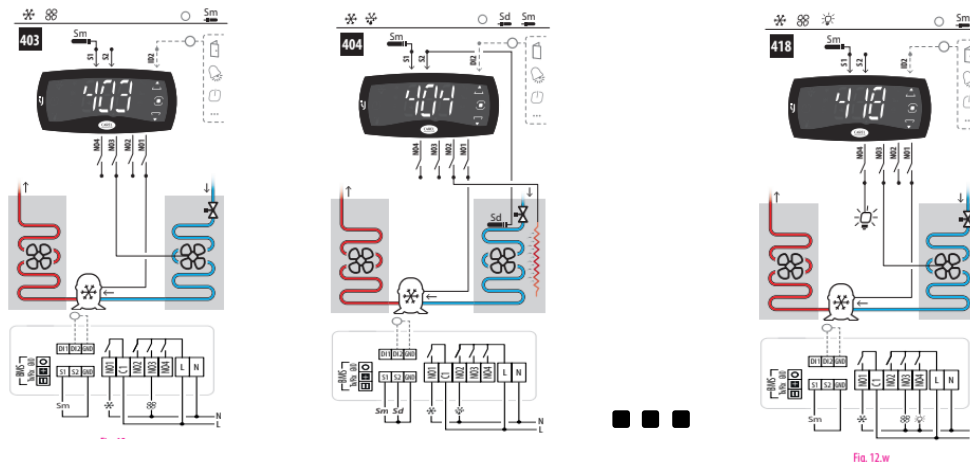
Different levels of interaction depending on the type of connectivity enabled

FUNCTIONALITY	 NFC	 Bluetooth®
Communication type	Copy/paste	REAL TIME
Controller status during APP access	switched-off or powered-on	powered-on
Configuration wizard	Yes	Yes
Parameters modifications	Yes	Yes
Configuration export / import /share /compare	Yes	Yes
Test mode (manual relays test activation)	Yes	Yes
REAL TIME device status (T, %rH) and command activation	-	Yes
REAL TIME graphical trend and LOG download	-	Yes
REAL TIME alarms acknowledge, management and reset	-	Yes
Enable CONTROLLA for end-user	-	Yes

Wizard from keypad



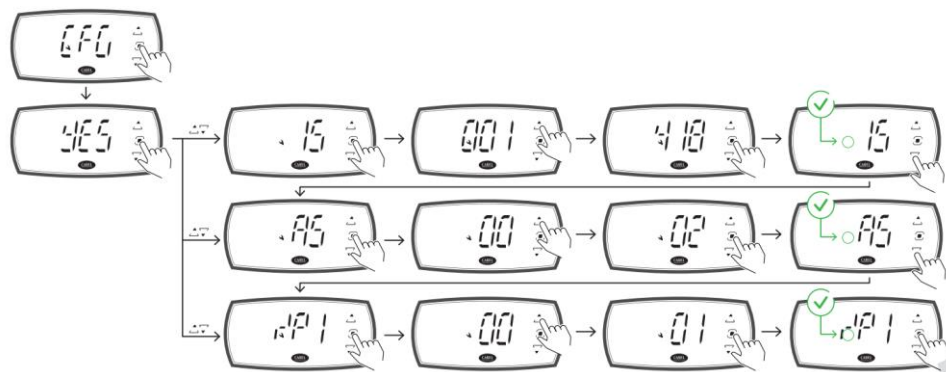
APPLICATION SCHEMES



APPLICATION

D.I. CONFIG.

PROBE TYPE

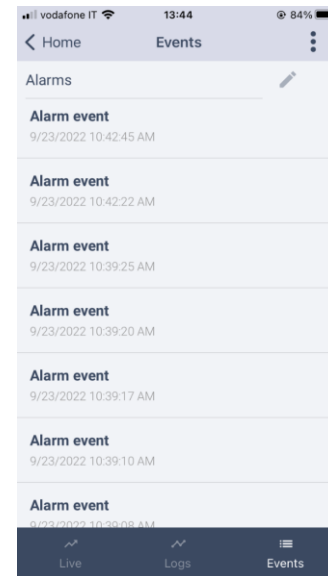
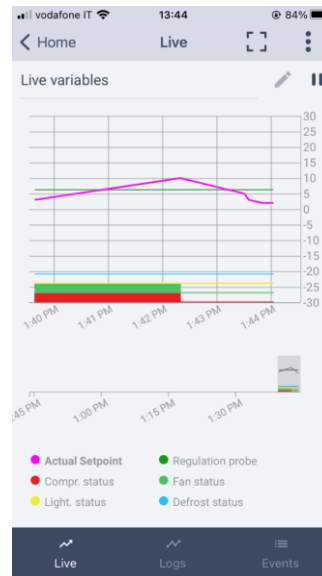
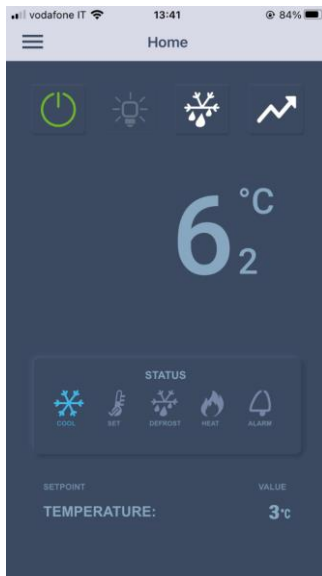


CONTROLLA - Functionalities

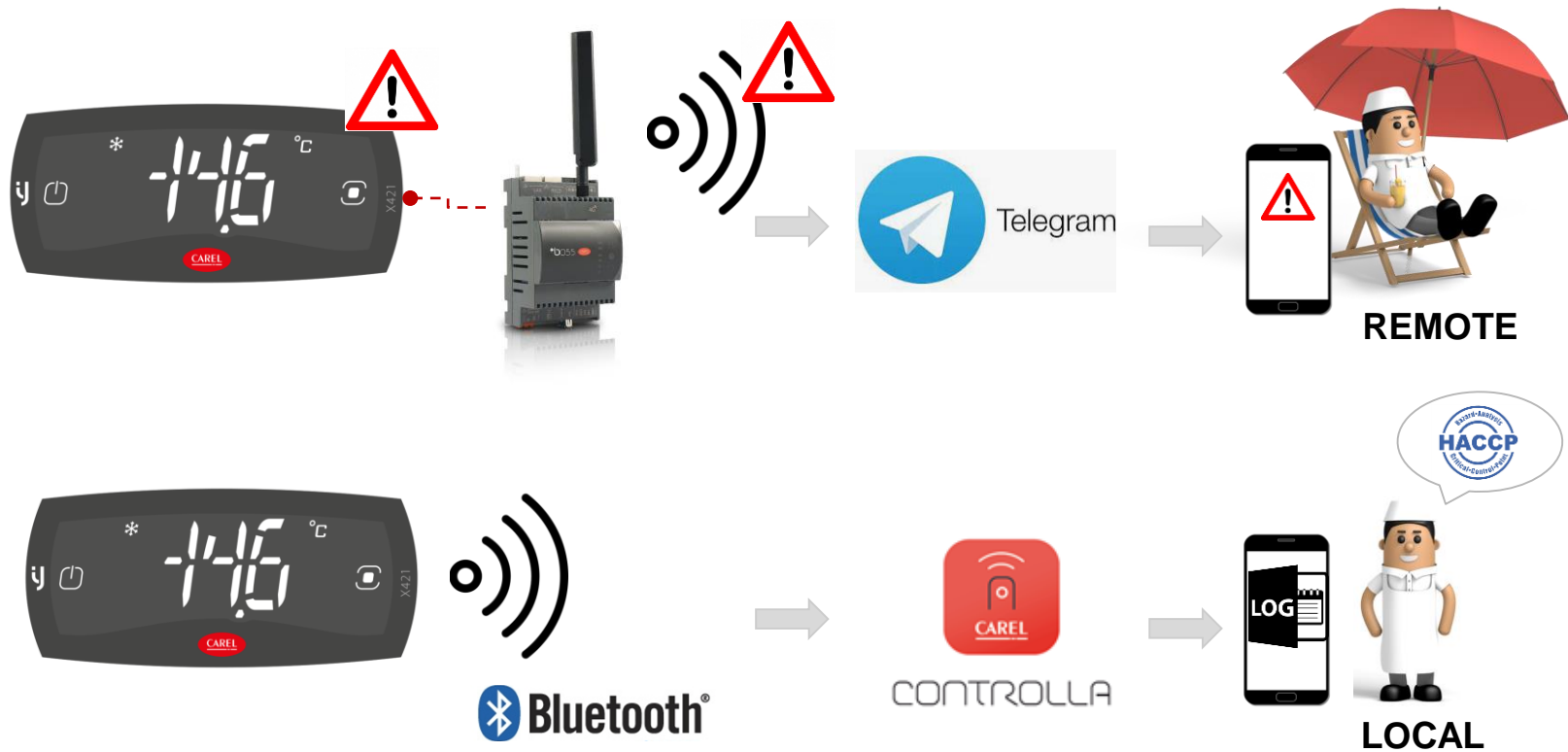


END USER

- Setpoint change
- HACCP logs
- Simplified alarm management



End-user services enabler





APPLICA



- **Target customer:**
installers in the
WHOLESALE channel
- **Application target:**
 - Replacement on field
 - New installations
- **Natively connected**
(BT, NFC & RS485)
- Can be configured and serviced by INSTALLERS from mobile devices through **APPLICA** and its **WIZARD**
 - enhanced usability
 - on-field time saving
- Can be used for direct control and HACCP logs by the END-USER through **CONTROLLA**



Visit us!
Hall 5, Stands 5-306/5-308

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