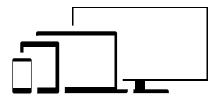




boss

The new mobile ready

local supervisor



The new CAREL local supervisor for medium and large systems

with built-in Wi-Fi, accessible from all mobile devices

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- Completely browsable from mobile devices, from commissioning to daily access for system maintenance;
- Built-in Wi-Fi to create a network and allow the supervisor to be accessed from the user's devices without requiring other network infrastructure.





Energy saving & system optimization

Algorithms for analysis and comparison, developed exploiting CAREL's experience, to facilitate and guide users in optimizing energy consumption.



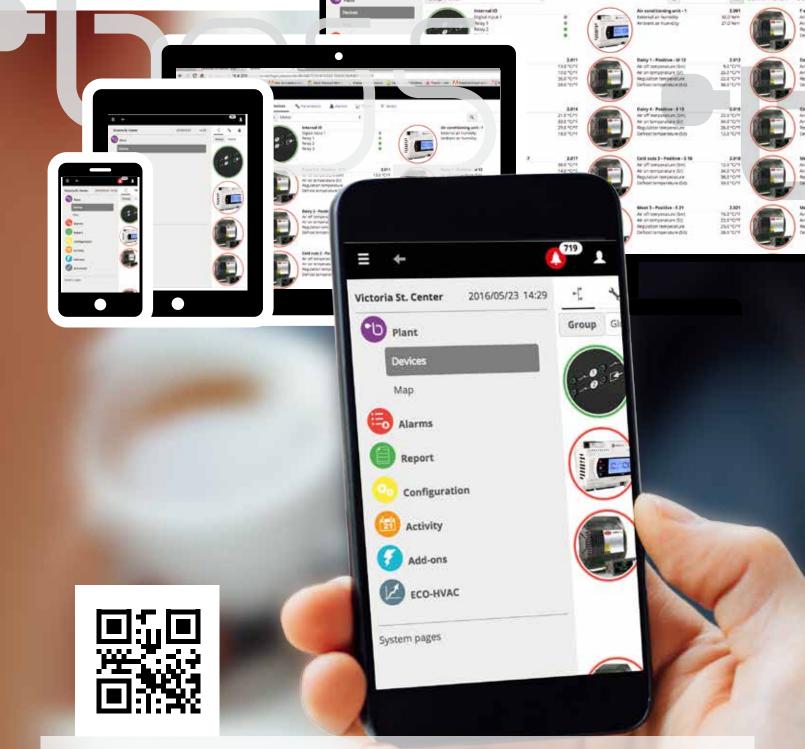
Secure data & browsing

HTTPS protocol for secure data transfer over the web from boss to an external device. Customized operating system to quarantee system reliability.



Intuitive & customizable interface

All the information is available to the user in just a few simple clicks, including system configuration and device management.



boss always in your pocket

Responsive web pages offer the possibility to access all boss pages for both programming and everyday operations using mobile devices. The graphics automatically to the device they are displayed on (computers with different screen resolutions, tablets, smartphones), minimizing the need for the user to resize the pages and scroll the contents.

centralized management

boss permits automatic data and alarm synchronization with RemotePRO, so as to keep the situation on all connected systems under control from just one interface. Centralized system management also increases reliability, through alarm analysis and scheduling of service. It also allows increased energy efficiency by comparing energy consumption and performance between the different sites and identifying possible cost reduction actions.

remote service

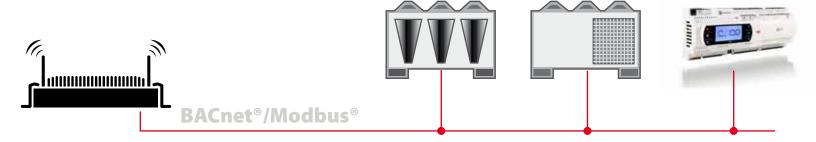
Access to typical operating system functions, such as printer driver installation, copying files, etc. is also available via a web interface, another first for a supervisory system. This means that remote service operations can be performed by authorized personnel without needing to travel on site, as is required with other supervisory systems.

Protocols and connectivity

For the first time ever on a CAREL supervisor, boss introduces the BACnet protocol, the leading protocol in HVAC supervision applications.

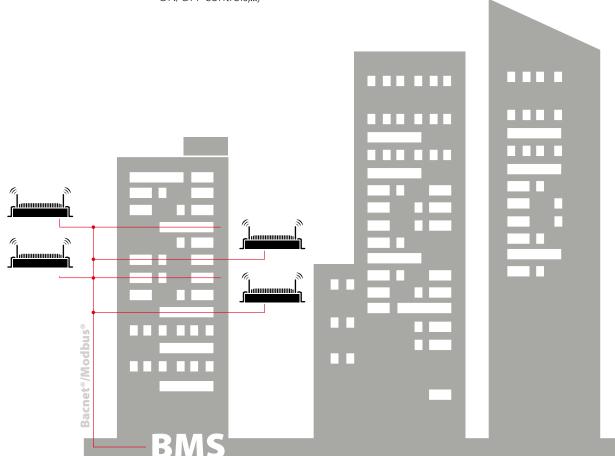
Integration of third party devices

This new feature significantly increases the possibility to integrate third party devices. The BACnet Master protocol is available in both MS/TP (RS485) and TCP/IP modes, and together with the Modbus RS485 and Modbus TCP/IP protocols, these too available on boss, offers the possibility to interact with the widest range of devices in the HVAC/R sector.



BMS integration

In addition to Master mode, the BACnet protocol is also available on boss in TCP/IP Slave mode, allowing boss to be integrated into a higher-level BMS, sharing the values of interest for overall building management (e.g. unit status, alarm status, ON/OFF controls,...)



System optimization functions

KPI

Performance index



Allows users to analyze the thermodynamic behavior of the individual units connected to boss, defining for each, or

for groups of units, the minimum and maximum operating thresholds for different variables, creating dashboards to identify which units are operating outside of the optimum conditions.

DEW POINT BROADCAST

Share the dew point



This is used to optimize activation of the anti-sweat heaters on the refrigeration units connected to boss, and consequently

reduce power consumption.
Connected to a room temperature and humidity probe, boss calculates the dew point in the area and sends the value to the entire network of connected units.

LOGICAL DEVICE/GROUND

Logical devices & logical variables



This is used to create new "virtual" variables and devices on boss, and then manage these as if they were real variables or

devices, created based on physical variables on the existing network devices.

GEO - LIGHTING

Optimized management of lights based on outside light



This is used to optimize switchon and switch-off of outdoor lights based on site

latitude and longitude, thus knowing the time when the sun rises and sets.

ENERGY

Consumption control and management



Allows users to monitor system energy consumption using graphs and reports, and then implement actions

aimed at reducing waste or fixing any faults highlighted.

SAFE RESTORE

Safe compressor rack restart



This is used to manage safe and optimum compressor rack restart following a fault, in the event of specific compressor rack conditions

putting all the connected refrigeration units in safety mode.

ALGORITHM PRO

Customized logic



This is used to create additional customized logic using the Java programming language, so as to increase interaction

between boss and the connected devices

SMART HIGH PURGE

Optimized free cooling on HVAC units



The air-conditioning system can be started before sunrise using calculations based on system enthalpy

(inside and outside), so as to fully exploit free cooling.

FLOATING SUCTION

Optimized suction pressure



This is used to optimize - in real time - the compressor rack working set point, thus reducing power consumption,

by analyzing the duty cycle of the connected cabinets. Based on cabinet cooling demand, the plug-in increases or decreases the compressor rack set point.

PARAMETER CONTROL

Parameter control



This is used to monitor all fundamental parameter setting actions on the units connected to the supervisor, for example the set point,

performed either using boss or directly on the unit, and then activate restore logic, sending alerts when such occur.

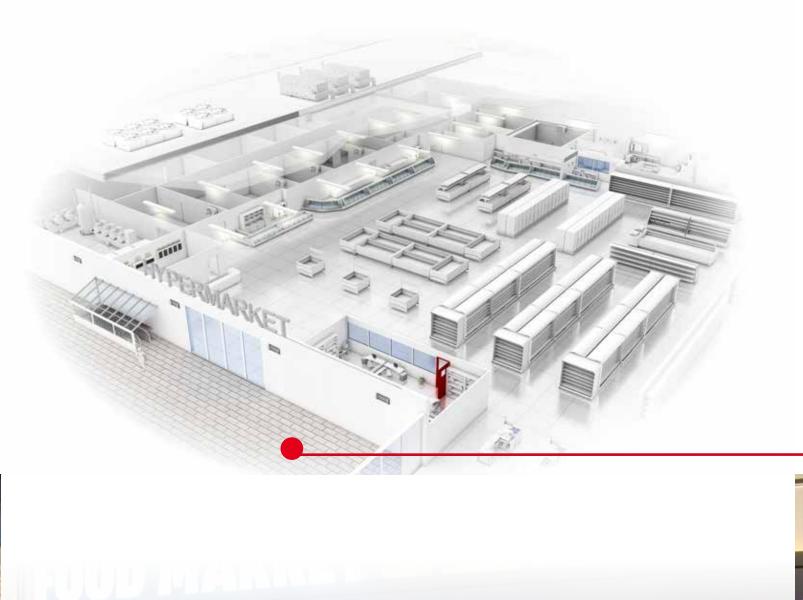
HVAC SMART START

Optimized air-conditioning ON/OFF



This is used to optimize activation, shutdown and set point change on HVAC units based on the ambient information acquired by boss, such

as inside and outside temperature, system inertia, occupancy and air quality.





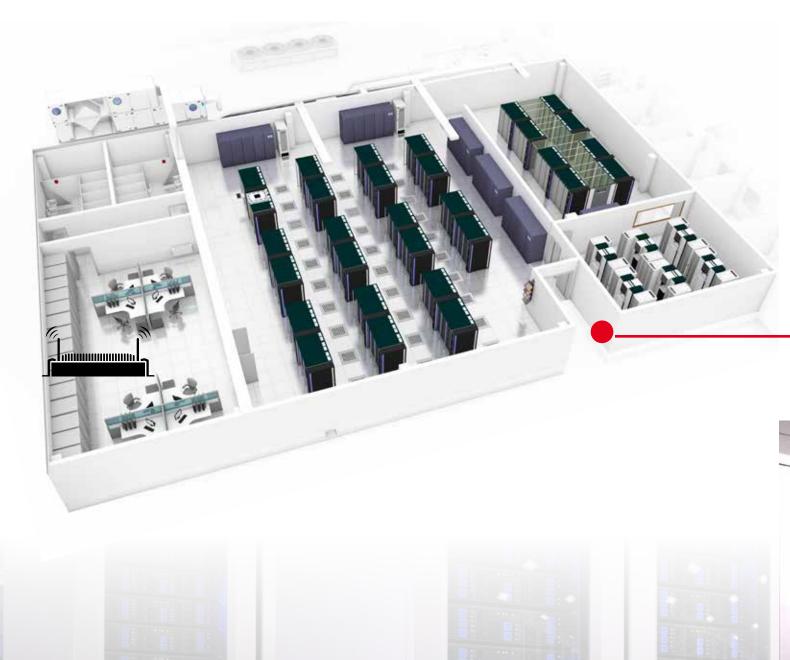
Refrigeration applications

Optimization of retail systems

In addition to all the functions of a standard supervisor, boss includes functions for managing refrigeration units and interaction between units, meaning not only is the system controlled, but also optimized in terms of thermodynamic performance and energy consumption.

CAREL's extensive and in-depth knowledge of these applications has also led to the development of user interfaces that are configured based on the type of user (i.e. installer, maintenance personnel, system manager) and the type of use, so as to ensure simpler and faster commissioning.





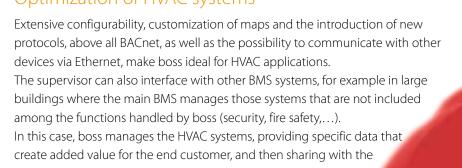








Optimization of HVAC systems







Customized graphics

User interfaces that can be customized according to the way in which information is managed by different users



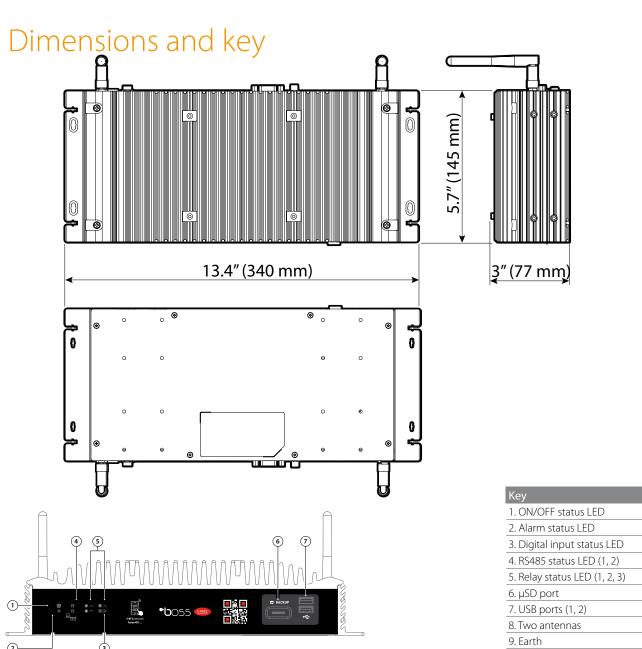
With the c.web tool, system status and the main variables relating to each controller can be represented using customized graphics. Indeed, c.web offers several powerful features, such as the creation of vectorial images that can adapt to all screen sizes on both desktop and mobile devices without losing resolution, the possibility to develop customized animated widgets in just a few clicks, and the reusability of graphic libraries developed for one project inside another.

The same hardware is suitable for all applications

The absence of an internal fan and heat dissipation ensured by a robust aluminium casing mean boss can be installed in many different environments, even industrial environments in which conditions are unfavourable.



roc	duct part numbers				
			Description	Max. number of devices managed/variables logge	
MI	HST00XS0	boss Monitoring System Star	ndard Capacity	100/1500	
MI	HST00XE0	boss Monitoring System Ext	ended Capacity	300/3500	
C	essory part numbers				
	P/N		PCOX*A		
MI	HST01P00	Credit for 1 boss plug-in			
_	dST03P00 Credit for 3 boss plug-ins				
M	STO5P00 Credit for 5 boss plug-ins STDNA00 DIN rail mounting bracket				
M					
(XX	XXXXXXXX	GSM/3G modem kit for send	ing SMS messages		
un	ctions				
	Funct	ion	BMHST00XS0 (Standard Capaci		
	Built-in Wi-Fi connectivity to mobile	devices	Yes		
	Double Ethernet port (separate LAN / Internet connections)		Yes		
	Built-in backup memory expansion (uSD)		Yes		
	Built-in optically-isolated RS485 ports		2		
	Built-in digital inputs		1		
	Built-in relay outputs		3		
	USB host ports			6 (2 front and 4 rear)	
WARE	Status LED		8 front (on/off, alarm, RS485 ports, relay, digital input)		
	Possibility to connect external GSM modem to send SMS		Yes		
≶	-	Minimum variable sampling time		5 sec	
RDWA	-				
HARDWARE	-		100-240 V~ 50-60 Hz power / 12VDC power supply mod		
HARDWA	Minimum variable sampling time Power supply		100-240 V~ 50-60 Hz power / 12VDC power supply mod	dule output	
HARDWA	Minimum variable sampling time Power supply Operating / storage temperature	les	100-240 V~ 50-60 Hz power / 12VDC power supply mod from 41 to 113 °F (5 to 45 °C	dule output C) / from -4 to 149 °F (-20 to 65 °C)	
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Headquarters ITALY

CAREL INDUSTRIES HQs

(1) (1)

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Via dell'Industria, 11 35020 Brugine - Padova (Italy) Tel. (+39) 0499 716611 Fax (+39) 0499 716600 carel@carel.com

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Affiliates

19. ON/OFF button

10. FIELD Ethernet
11. LAN Ethernet
12. USB ports (1, 2, 3, 4)
13. Display port
14. VGA port
15. Digital inputs
16. RS485 line (1, 2)
17. Relay outputs (1, 2, 3)
18. Power supply

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