



Red Star Bakery Top Level



Product presentation

Electronics for bakery ovens, performance without any compromises at your fingertips



Red Star

The product line dedicated to professional ovens. Over 20 years of experience have allowed ECS to develop products capable of managing all the oven functions.

Dedicated

Control board and user interface are designed in order to fulfill any deck or conveyor oven needs for bread and pizza baking. The touch display ensures a quick and efficient machine usage.

Connected

All the products of the Red Star line come with a Wi-Fi module. The Connecty.cloud allows you to exploit all the opportunities offered by the IoT.



Cloud service



The final user can:
manage the recipe-book,
monitor the machine,
browse the log HACCP.



Servicing can:
monitor I/O section, locate the
machines in order to perform
an accurate service.



Manufacturer can:
Update board software,
collect data regarding
customer habits usage in
order to arrange servicing
or promotional campaign.

Free

- ✓ Connecty.cloud
- ✓ User functions
- ✓ Service functions
- ✓ Manufacturer functions

Free



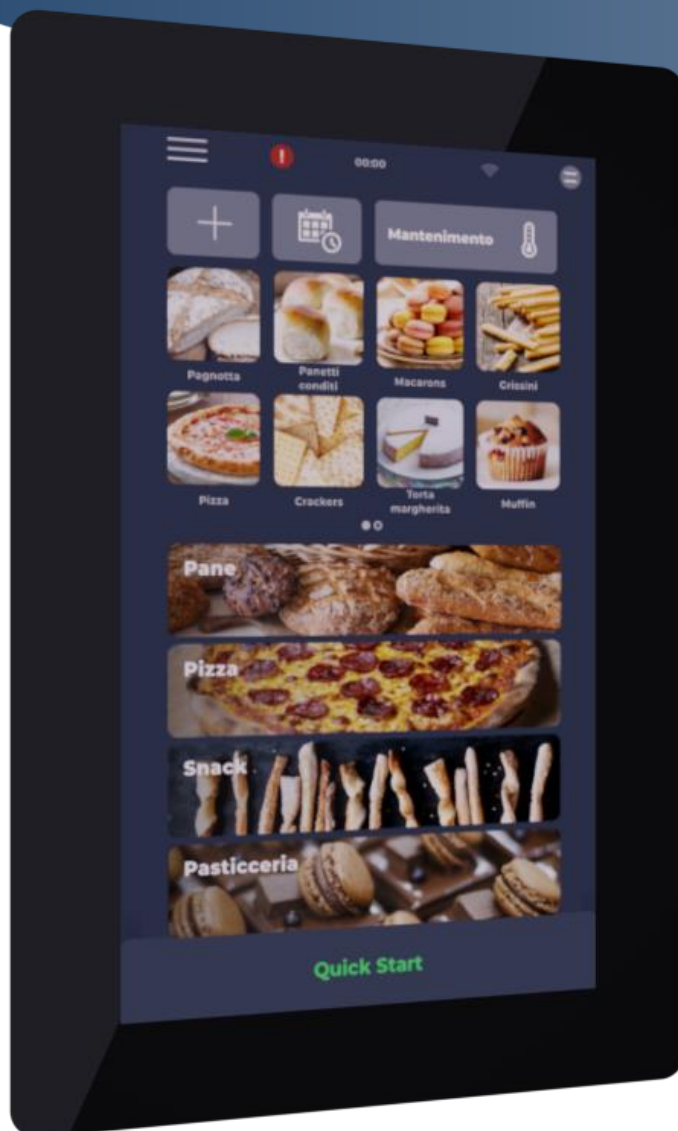
Company

- ✓ All free plan functions
- ✓ Access to all machines
- ✓ Platform and branding customizations

Fee



Quick and intuitive interface made available for technology

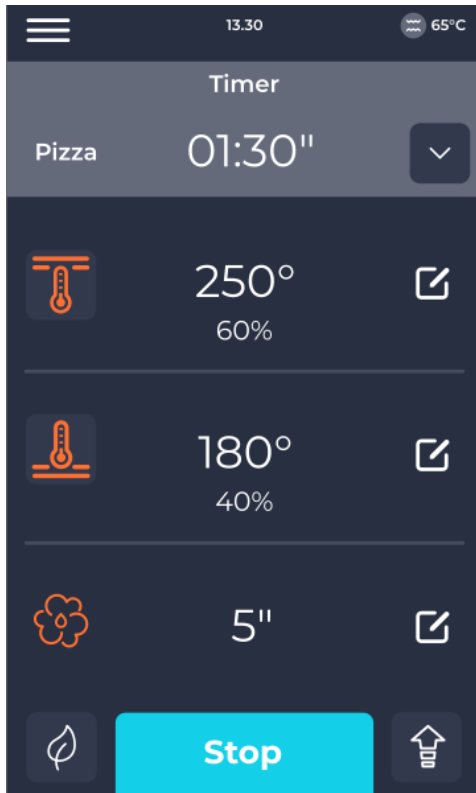


7" Touch display

User interface



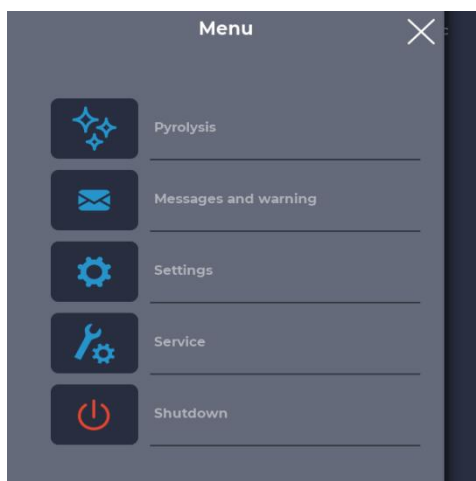
Procedure



Quick edit

The oven main page enables all the most important functions setting: temperature and power of ceiling and floor, timing, humidity and eco/boost functions.

Any adjustment is automatically saved with no confirmation needed in order to optimize timing and use.



Contextual menu

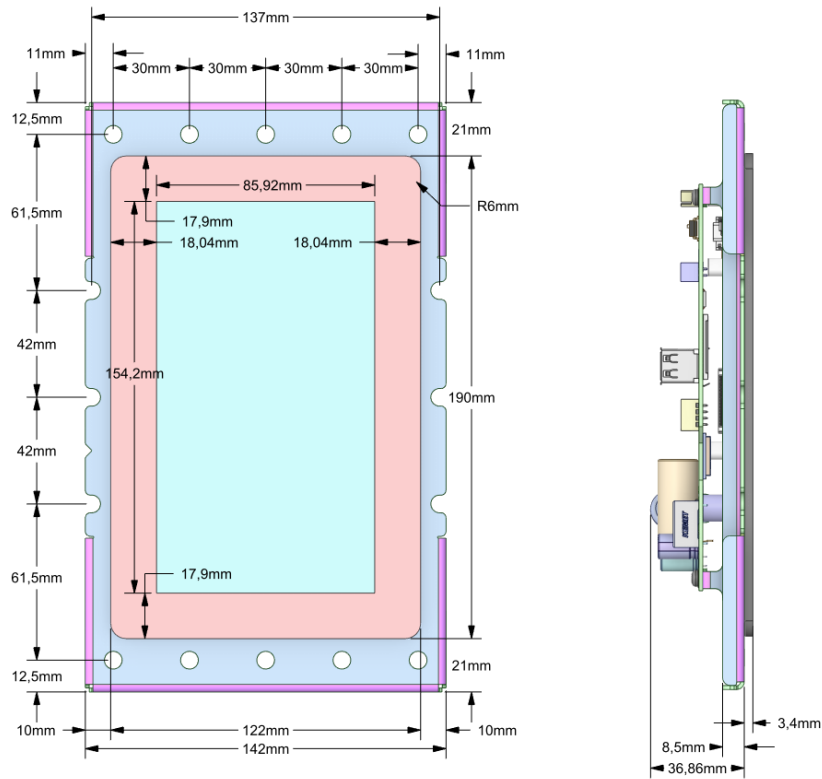
The menu contains both contextual functions related to the origin page and global functions like general settings or statistics.



Eco/Boost functions

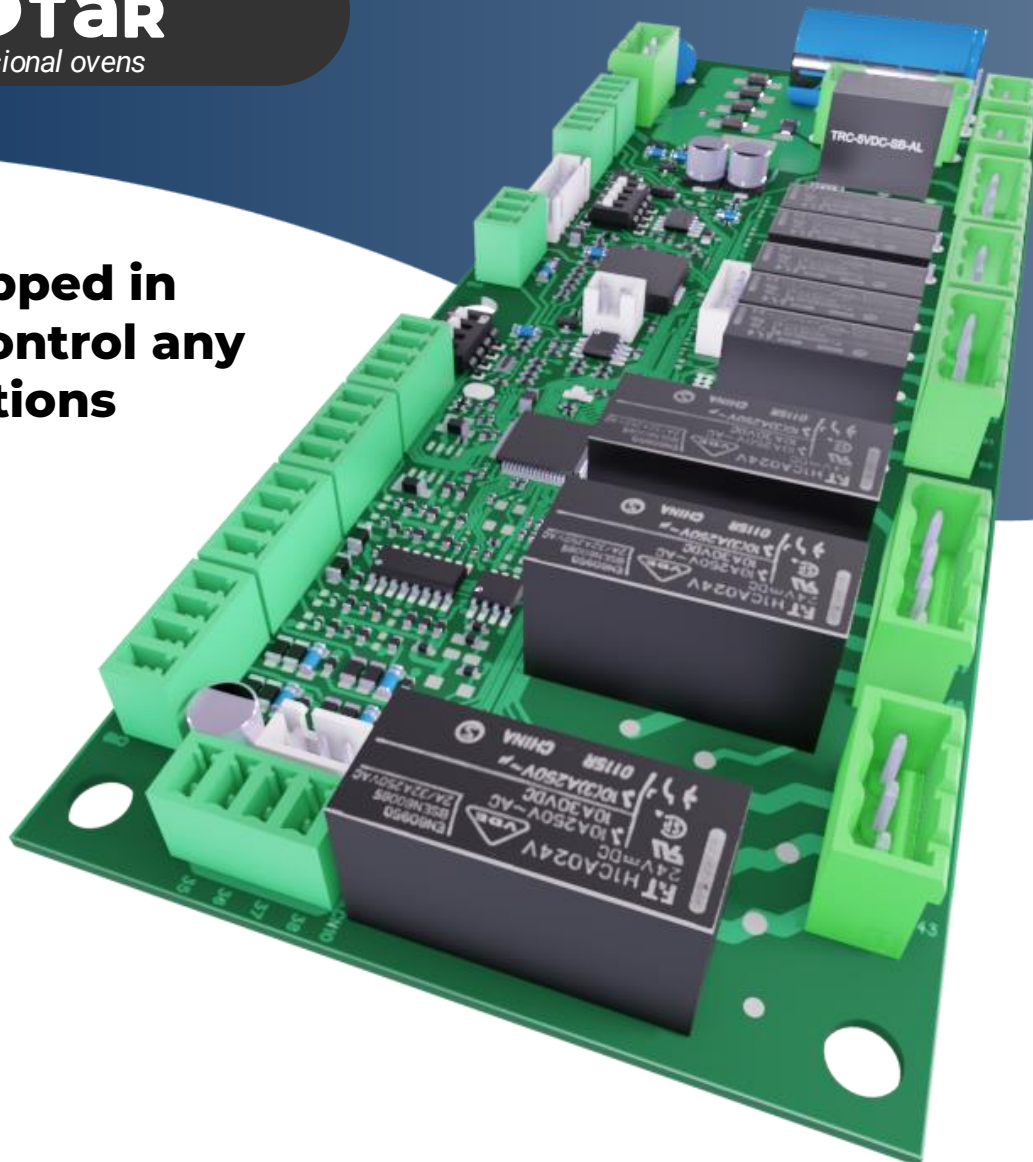
Energetic management features provide accurate regulation of the oven power. Depending on specific needs, boost and eco functions ensure efficient control consumption.

Display 7"



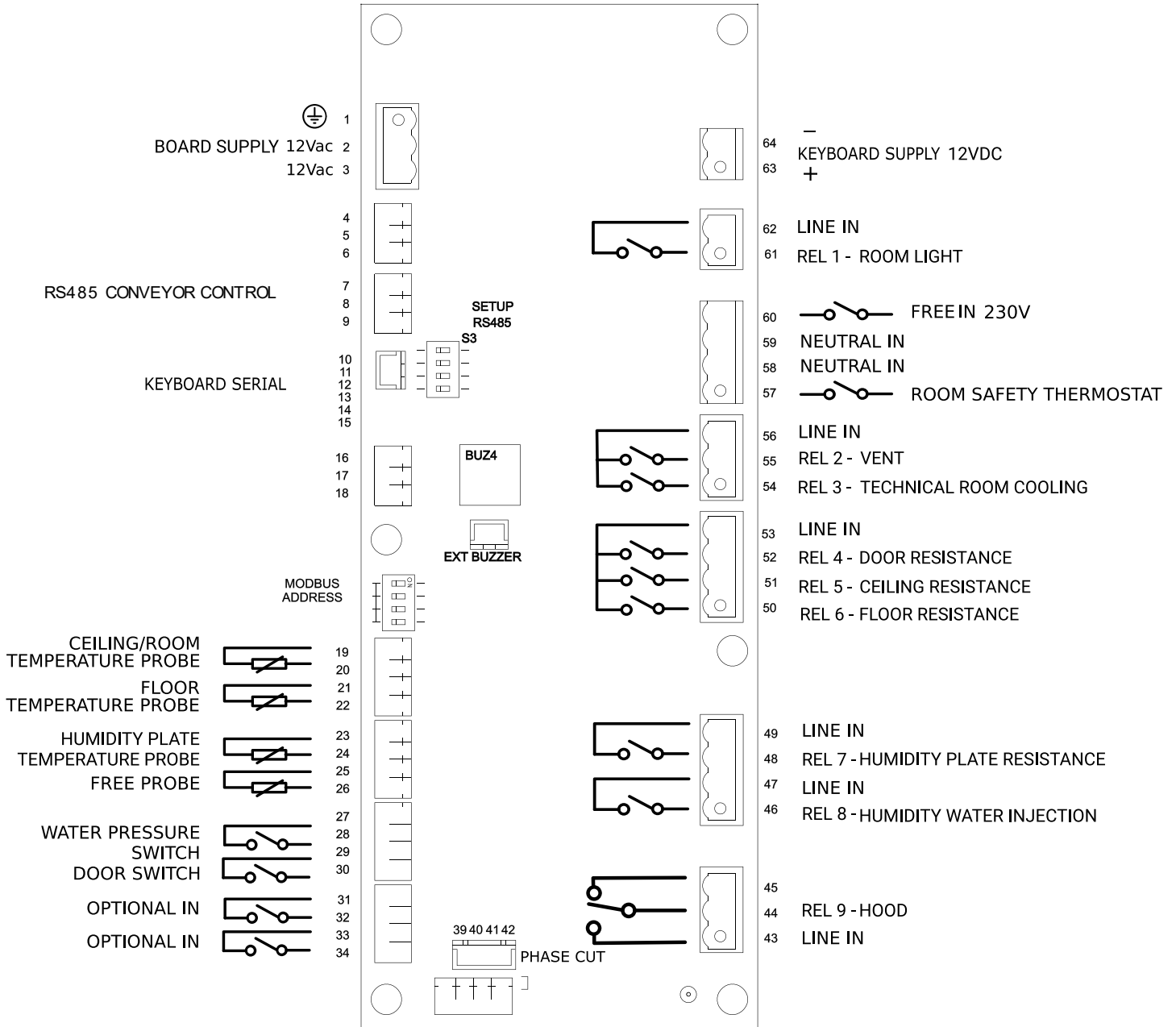
Equipment 7"	Description
Resolution	Resolution 1024x600 Touch Capacitive
Dimensions	142 x 232 x 37 mm
Weight	702 gr
Power supply	12 ÷ 18Vdc provided by main board
Power requested	10W rated output
Inputs/Outputs	1 Removable connector 3 ways p. 5mm 2 Connectors 3 ways for analogue inputs (optional) 1 Connector JST 4 ways for encoder/digital inputs (optional) 1 Connector 14 ways for keys board (optional)
Communication	1 serial RS485 1 serial CAN (optional) 1 serial ECS Bus for connection with main board 1 USB A type Software updating 1 Connector for Micro SD card for mass-storage
Connectivity	Integrated WiFi module
Container	Not provided

**Fully equipped in
order to control any
oven functions**



RS09 I/O control board

RS09 I/O Connections



RS09 I/O Equipment

Equipment	Description	Characteristics
Max overall dimensions	L 203 x H 78.50 x 35 mm	
Weight	156 gr	
Power supply	12 Vac + uscita dc per HMI 12Vdc 2 A	
9 Digital outputs (*)	Room light relay	5 A (AC1 @230/12-24Vac-dc)
	Vent relay	5 A (AC1 @250 Vac)
	Technical room cooling relay	5 A (AC1 @250 Vac)
	Door resistance relay	5 A (AC1 @250 Vac)
	Ceiling resistance relay	5 A (AC1 @250 Vac)
	Floor resistance relay	5 A (AC1 @250 Vac)
	Humidity plate resistance relay	16 A (AC1 @250 Vac)
	Humidity water resistance relay	16 A (AC1 @250 Vac)
	Hood relay	16 A (AC1 @250 Vac)
(*)max power range of the terminals is 12 A for each one		
4 Digital inputs LV	Door switch	Clean contact
	Water pressure switch	Clean contact
	Free	Clean contact
	Free	Clean contact
2 Digital input HV	Room heating/Gas block	115-230 Vac
	Free/Zero cross optional	115-230 Vac
4 Analogue inputs	Ceiling probe	PT1000/Thermocouple J/K
	Floor probe	PT1000/Thermocouple J/K
	Humidity probe	PT1000/Thermocouple J/K
	Free	PT1000/Thermocouple J/K
1 NTC cool joint	NTC	NTC on board
2 I/O analog 0-10V		In and Out 0-10v 4-20mA
3 Digital outputs LV	External SSR command	open collector NPN
2 Digital outputs LV	Phase cut expansion control	open collector NPN
Analog output	1 output	0÷10V o 0÷20mA
Communication	ECSBUS	Yes not isolated
	RS485	Yes not isolated
	RS232 TTL	Yes not isolated
Buzzer	4kHz / 85dB @ 10cm	On board or external



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