

**iJW\*** SMALL 4 RELAY START GUIDE

## MODELS AND OPTIONS

I	J	W	P	S	A	*	*	*	*	...
Product family name	Product name									
N. of relays	Connectivity / RTC	MODEL								
2 = 2 relay	N = NFC	01 = TTL								
4 = 4 relay	R = NFC, RTC	02 = BMS								
	B = NFC, RTC, Bluetooth	07 = BMS, 0..5V rat (humidity)								

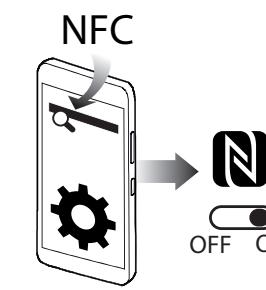
⚠ Note: iJW is designed to be connected in supervision via TTL or BMS port via Modbus protocol. For the use of the Carel protocol there are specific models for which reference is made to the product catalogue.

## WIZARD CONFIGURATION MODE

- APPLICA - Mobile app
- Info & Documentation
- Tutorials



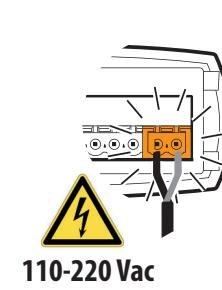
## NFC



## READ CONFIGURATION

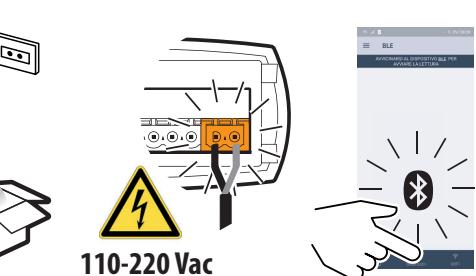
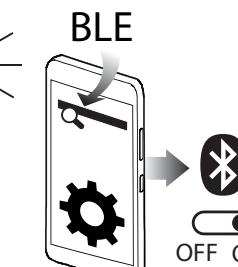
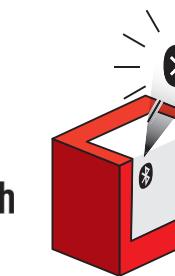


## WRITE CONFIGURATION

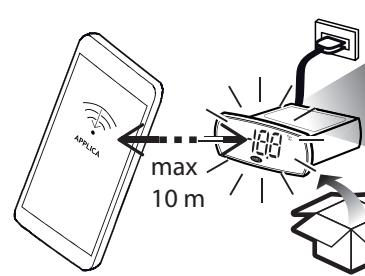


110-220 Vac

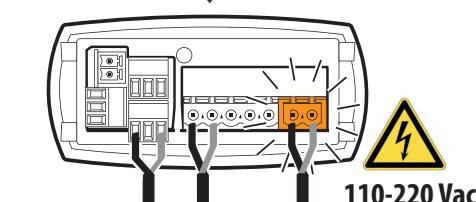
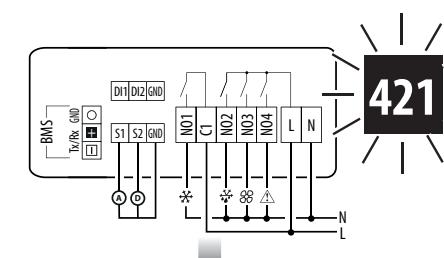
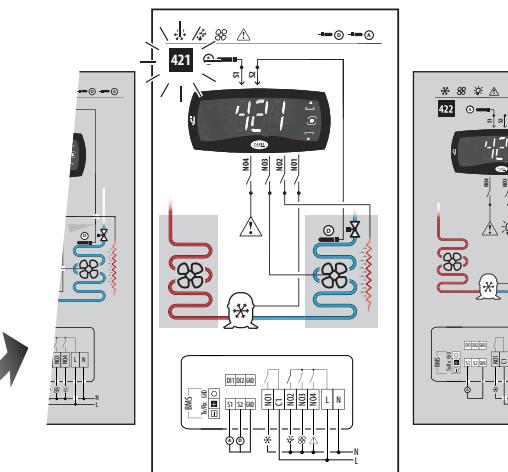
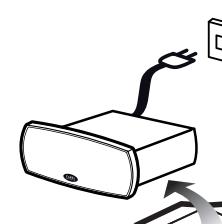
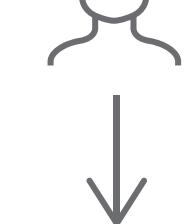
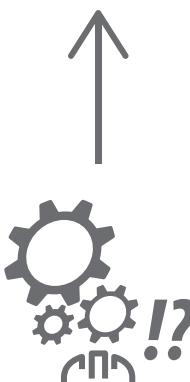
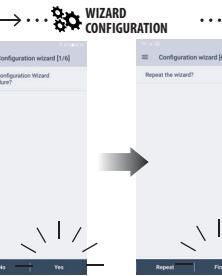
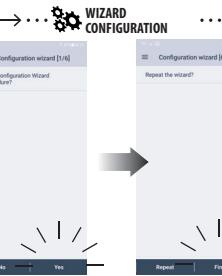
## BLE



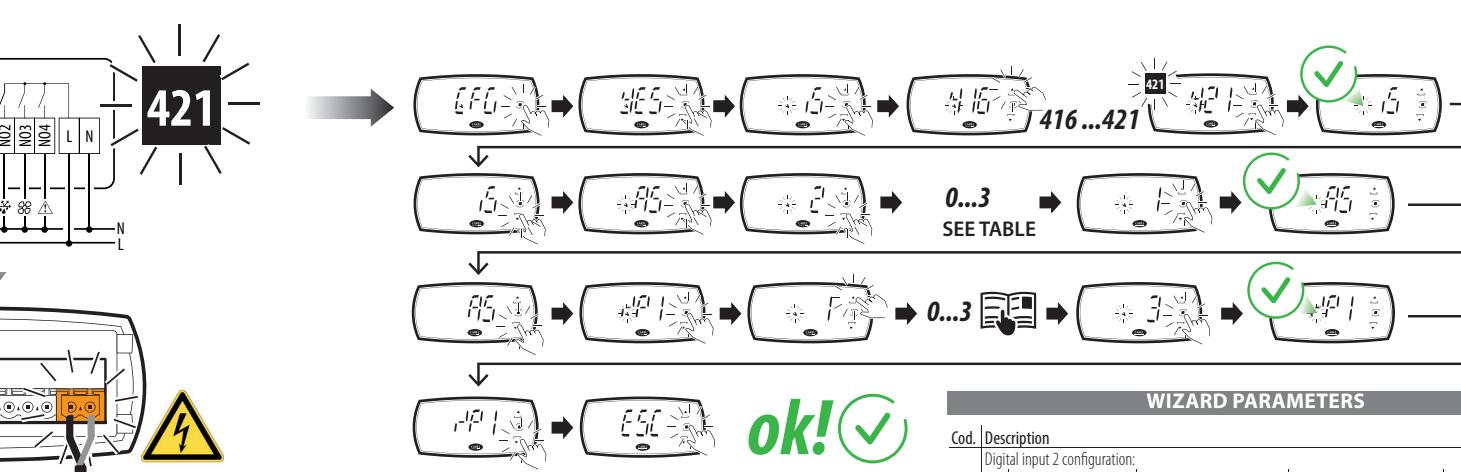
110-220 Vac



## READ AND WRITE CONFIGURATION



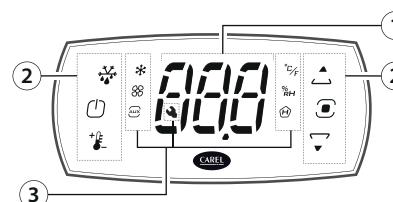
110-220 Vac



## WIZARD PARAMETERS

Cod.	Description
A5	Digital input 2 configuration: 0   No configured 1   External alarm NO 2   External alarm NC 3   Door switch NO 4   Door switch NC 5   Remote ON/OFF NO 6   Remote ON/OFF NC
/P1	Configuration probe: S1, S2, S3, S4: 0   PT1000 1   PTC 2   NTC 3   NTC-LT 4   NTC-HT
IS	Configuration to upload (0: no configuration selected)

## USER TERMINAL

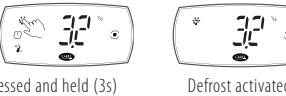


Key:  
 1 display  
 2 icons/backlit buttons  
 3 icons

Button	Description	ON	Flashing
Program		Pressed briefly: • wake-up controller • enter menu branch • save value and return to the parameter code	-
	Down arrow	Pressed and held (3 s): • Decrease value • Scroll menu • Auxiliary function: active/ can be deactivated from the keypad	Auxiliary function: waiting/ can be activated from the keypad
*	Compressor	Active	Waiting
88	Evaporator fan	Active	-
AUX	Auxiliary load	Active	-
°C/F	°C / °F	Temperature unit of measure °C / °F	-
%RH	% RH	Relative humidity unit of measure %	-
HACCP	HACCP	Active HACCP alarms	-
?	Service maintenance	Active alarms	-

## NAVIGATION AND FUNCTIONS ACTIVATION

## Manual defrost activation



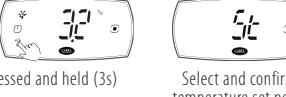
Pressed and held (3s) Defrost activated

## Unit power off



Pressed and held (3s) Unit off

## Change setpoint

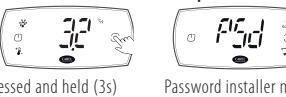


Pressed and held (3s) Select and confirm temperature set point



Change setpoint value Confirm set point value

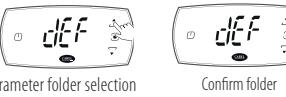
## Parameter modification example



Pressed and held (3s) Password installer menu



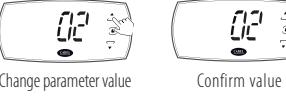
Password entry (psw 22) Confirm PSD value



Parameter folder selection



Confirm folder



Parameter selection



Confirm parameter



Change parameter value



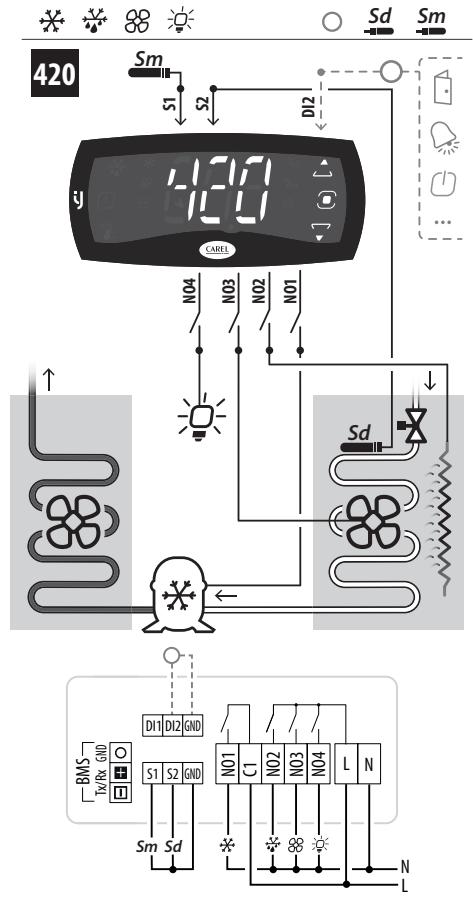
Confirm value

TABLE OF PARAMETERS AVAILABLE FROM KEYBOARD

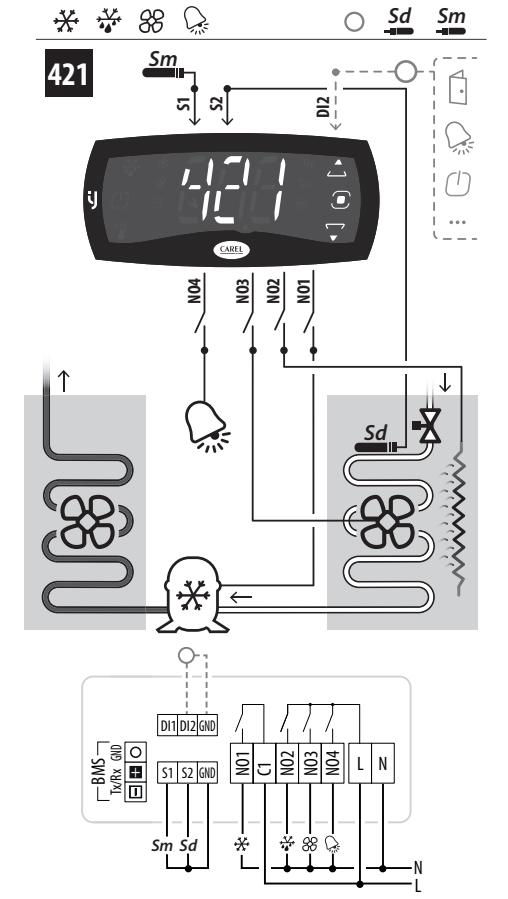
Val.	Description	Def.	Min	Max	UoM
Sc	Condenser temperature		Read only parameter	-	°C/°F
Sd	Defrost temperature		Read only parameter	-	°C/°F
Sm	Outlet temperature		Read only parameter	-	°C/°F
St	Regulation temperature setpoint	50/122	r1	r2	°C/°F
rd	Regulation temperature differential	2/3.6	0.1/0.2	99.9/179.2	Δ °C/°F
Sh	Humidity set point	90	0.0	100	% RH
rdh	Humidity differential	5	0.1	99.9	Δ % RH
IS	Configuration to upload (0: no configuration selected)	-	-	IS_max	-
r1	Minimum temperature setpoint	-50/-58	-99/-146	r2	°C/°F
r2	Maximum temperature setpoint	50/122	r1	200/392	°C/°F
rn	Neutral zone	4/7.2	0	60/108	°C/°F
/4	Virtual probe composition: 0 = Air off (Sm) 100 = Air ON (Sr)	0	0	100	%
rSC	Restore to Carel settings	0	0	1	-
/5	Unit of measure: 0=°C, 1=°F	0	0	1	-
/6	Decimal point visualization in main mask: 0=Visible, 1=Not visible	0	0	1	-
/CA	Outlet temperature probe offset calibration	0	-20/-36	20/36	°C/°F
/Cb	Defrost temperature probe offset calibration	0	-20/-36	20/36	°C/°F
/Cc	Intake temperature probe offset calibration	0	-20/-36	20/36	°C/°F
/nE	Enable user terminal navigation: 0 enabled 1 disabled 2 ON/OFF dis. 3 ON/OFF and Setpoint dis.	0	0	3	-
	Display on user terminal: 0 Not Config. 3 S3 Value 6 S6 Value 10 Virtual Probe 1 S1 Value 4 S4 Value 7 S7 Value 15 Actual Temp. 2 S2 Value 5 S5 Value 9 Control Probe Set Point	9	0	15	-
/P1	Configuration probe: S1, S2, S4: 0 PT1000 1 PTC 2 NTC 3 NTC-LT 4 NTC-HT	2	0	4	-
/P2	Configuration probe: S3/DI1: 0, 1, 2, 3, 4 NTC 5 Dig. Input	5	0	5	-
d0	Type of defrost: 0 Heater by Temp. 2 Heater by Time 1 Hot Gas by Temp. 3 Hot Gas by Time 4 Heater by Time with Temp. Control	0	0	4	-
dl	Defrost interval	8	0	240	hours
dP1	Maximum defrost duration	45	1	240	min
dt1	End defrost temperature read by Sd	4/39.2	-50/-58	50/122	°C/°F
d4	Enabling of defrost at start up: 0=Disabled, 1=Enabled	0	0	1	-
d8	High temperature alarm delay after defrost	1	1	240	hours
dd	Dripping time after defrost (fans off)	2	0	15	min
HCP	reset HACCP history	0	0	1	-
Hb	Buzzer: 0=Disabled, 1=Enabled	1	0	1	-
HO	Serial address	1	1	247	-
GF1	Configuration up arrow: 0 Off 1 Light 2 Aux 3 Continuous cycle	0	0	3	-
GF2	Configuration down arrow: 0 Off 1 Light 2 Aux 3 Continuous cycle	0	0	3	-

Val.	Description	Def.	Min	Max	UoM
A1	Alarm thresholds (AL, AH) relative to the set point St or absolute: 0 = relative; 1 = absolute	0	0	1	-
AH	Relative High temperature alarm threshold	0	0	555/999	Δ °C/°F
AL	Relative Low temperature alarm threshold	0	0	200/360	Δ °C/°F
AHA	Absolute High temperature alarm threshold	537/999	-100/-148	537/999	°C/°F
ALA	Absolute Low temperature alarm threshold	-100/-148	-100/-148	537/999	°C/°F
Ad	Delay time for high and low temperature alarms (AH, AL)	120	0	240	min
Add	Door alarm delay and high temp. alarm delay after door opening	5	1	240	min
c0	Compressor, fan and AUX start delay at power on	0	0	15	min
c1	Minimum time between compressor consecutive starts	0	0	15	min
c2	Minimum compressor OFF time	3	0	15	min
c3	Minimum compressor ON time	0	0	15	min
dMP	Evaporator fan management: 0 Always On 1 Sd-Sv 2 Sd 3 Sv	0	0	3	-
F0	Fan activation temperature	5/41	-50/-58	50/122	°C/°F
F1	Fan with compressor off: 0 See F0 1 Off 2 Cycles to avoid stratification 3 Dehumidification cycles	1	0	3	-
F2	Evaporators fan during defrost: 0=On, 1=Off	1	0	1	-
F3	Post dripping time after dripping (fans off with control active)	2	0	15	min
Fd	Evaporators fans during post-dripping: 0=On, 1=Off	0	0	1	-
	ALARMS				
Code	Description				
AFr	Frost protection				
AtS	Restart in pump down				
CE	Configuration writing error				
ChT	High condensing temperature alarm				
cht	High condensing temperature warning				
dA	Delayed alarm from external contact				
dor	Door open				
E1	Probe 1 faulty or disconnected				
E2	Probe 2 faulty or disconnected				
E3	Probe 3 faulty or disconnected				
E4	Probe 4 faulty or disconnected				
E5	Probe 5 faulty or disconnected				
E6	Probe S1H faulty or disconnected				
E7	Probe S2H faulty or disconnected				
Ed1	Defrost terminated after maximum time				
rSF	Refrigerant leak alarm				
SrC	Maintenance request				
EH	High power supply voltage alarm				

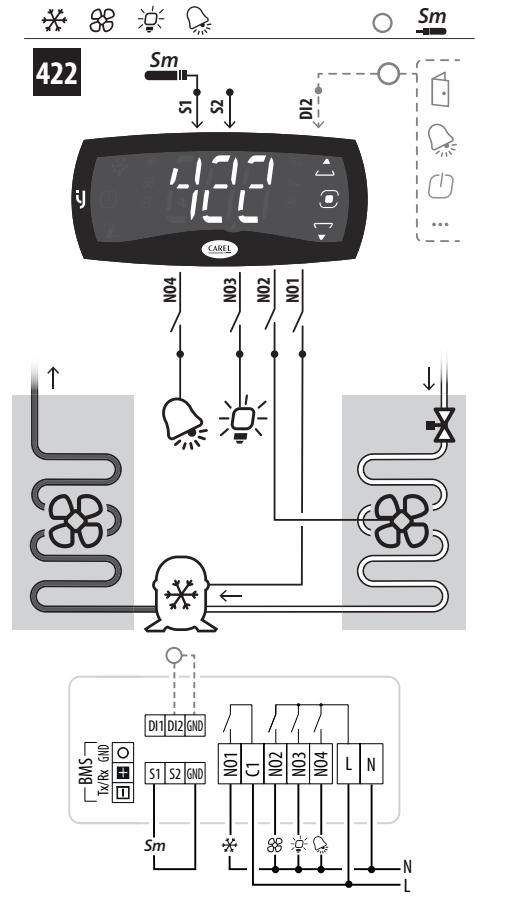
420 - Compressor - Defrost - Fan - Light



421 - Compressor - Defrost - Fan - Alarm

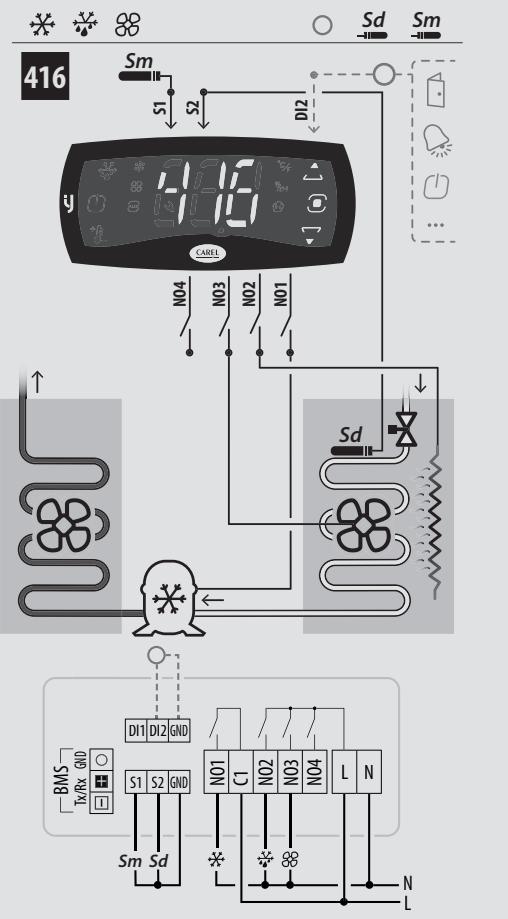


422 - Compressor - Fan - Light - Alarm

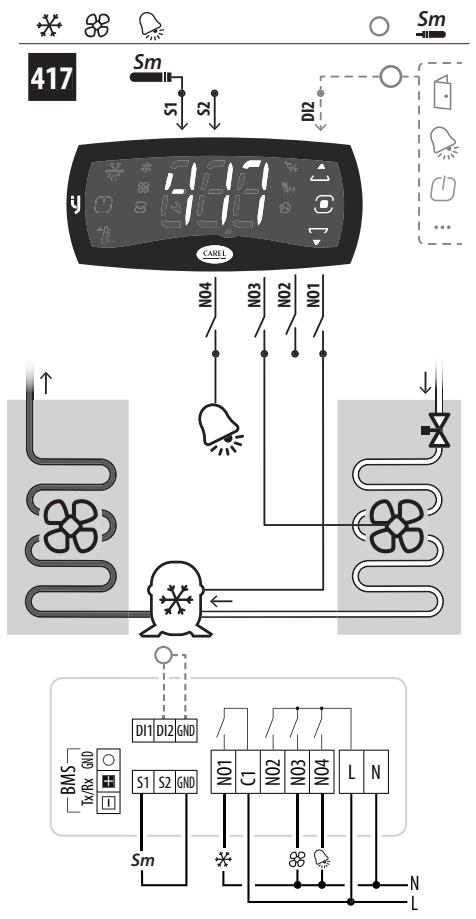


APPLICATION WIRING

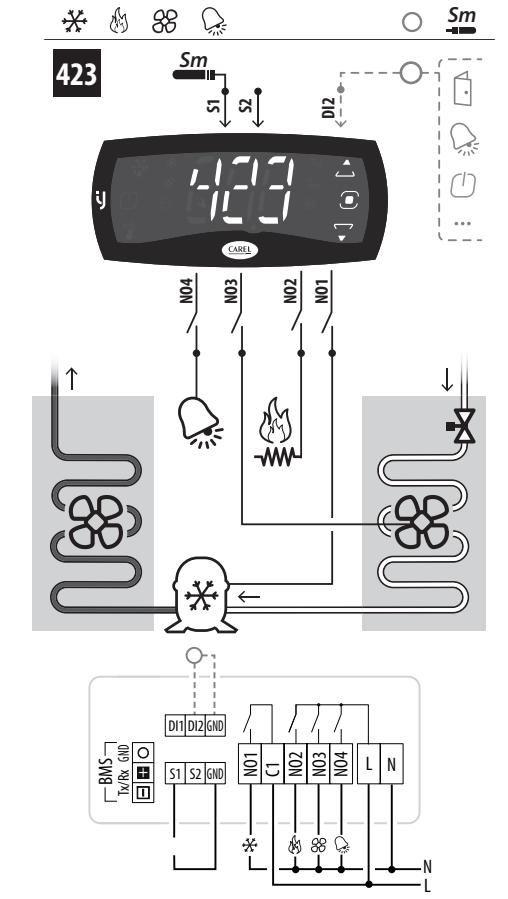
416 - Compressor - Defrost - Fan



417 - Compressor - Fan - Alarm



423 - Compressor - Resistor - Fan - Alarm



424 - Compressor - Fan - Humidifier

