The smart solution for refrigeration

for field service and new installations

iJW hardware guide 1.2

Index

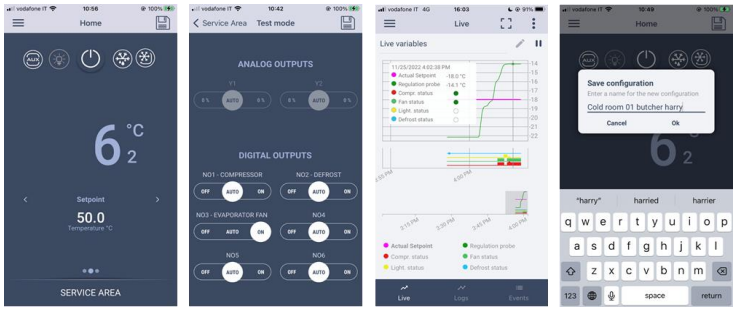
Features and Benefits

The refrigeration controller for smarter field commissioning

Quick configuration and accessibility with the Applica app
Saving you time in the field.

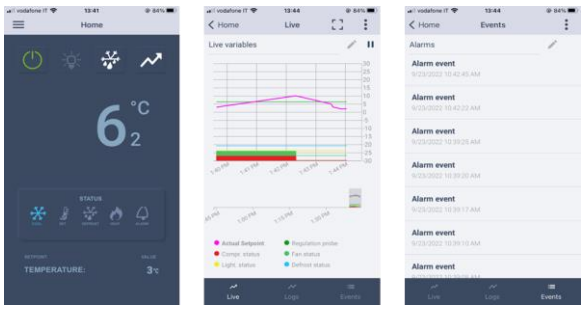
- Pre-set configurations via the built-in wizard, cover many standard applications
- NFC and Bluetooth connectivity via the Applica app for field setup on your mobile device
- Simplified range covering most applications.
- Flexibility with the range of temp sensors includes, NTC / PTC / PT1000
- Wide viewing angle and larger display for improved visibility
- Easy cleaning frameless capacitive touch control pad
- Plug in terminals for easier change out

APPLICA



Controlla is a dedicated end user app, giving the ability to check the status, setpoint adjustment and downloading of temp logs for HACCP compliance

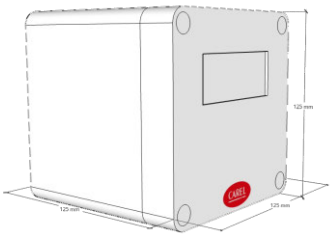
CONTROLLA



Tech Tips

New packaging label indicates available features for each device

- Short code indicates basic features.
  - **4B02 4** = 4 Relays,
  - **B** = NFC + Bluetooth,
  - **02** = BMS
- QR code makes setup even quicker and easier.
- Electrical diagram included on carton at point of sale.
- Additional universal icons to show feature selection.
  - NFC, BT, RTC, BMS, Modbus, %RH
- Humidity control only available with large model (6 relays)



The new iJW controller fits the standard IR/PJ controller openings

Sizes: 71 x 29mm small

138.5 x 29mm large (Wide model)

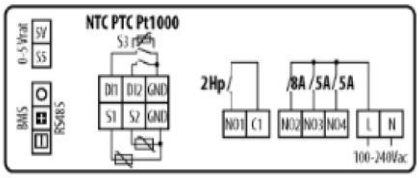
New deeper box Part no. **IJBOX20000**
Overall dimensions are 125 x 125 x 125mm

The iJW is deeper than the IR series to accommodate the plug-in terminals

New features with iJW:

- Wide operating voltage range tolerance from 90 to 264Vac
- Compressor safety protection against high or low power supply voltages
- Zero voltage relay switching
- In-built BMS serial card for Modbus RS485 connectivity
  - A dedicated Carel protocol model is available: **4R02**
- Dedicated parameters for relative and absolute alarms
- Simple IO configuration via preset wizard codes for each series

Relay ratings:



The current rating indicated on the label is the **relay** rating

- EN60730 is the preferred load rating E.g. 12(2)
  - The first number is the resistive load rating like heaters, incandescent lights, etc.
  - The number in brackets is the inductive load rating. E.g. motors, solenoids etc.
- Total connector load should not exceed 12A

For further info check the iJW Technical Characteristics leaflet +0500167ML

Wizard Application Options

Quick and easy I/O setup via the Wizard configuration codes for each controller type.

Wizard configuration selections

CAREL SERVICES

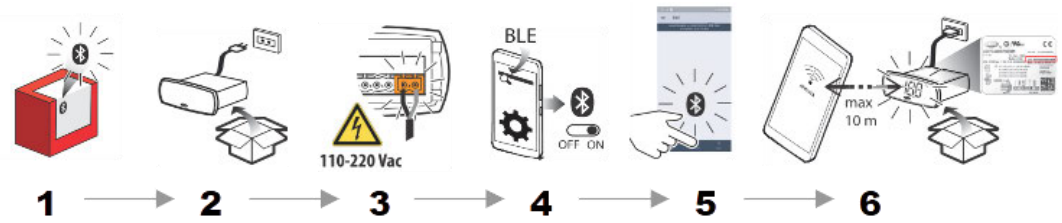
Wizard Codes		Digital Outputs									Analog + Digital inputs				
2 Relay Model		Compressor	Defrost	Fan	Alarm	Light	Heater				S1	S2	DI1	DI2	
2B02	201	NO1									Sm				
	202						NO1				Sm				
Default	203	NO1		NO2							Sm				
	204	NO1	NO2								Sm	Sd			
	205	NO1			NO2						Sm				
	206	NO1				NO2					Sm				
	207	NO1					NO2				Sm				
	208			NO2			NO1				Sm				
	209				NO2		NO1				Sm				
4 Relay Model		Compressor	Defrost	Fan	Alarm	Light	Heater				S1	S2	DI1	DI2	
4B02	403	NO1		NO3							Sm				
4R02	404	NO1	NO2								Sm	Sd			
	405	NO1			NO4						Sm				
	406	NO1				NO4					Sm				
	407	NO1					NO2				Sm				
	408			NO3			NO2				Sm				
	409				NO4		NO2				Sm				
Not for this model	411														
Default	416	NO1	NO2	NO3							Sm	Sd			
	417	NO1		NO3	NO4						Sm				
	418	NO1		NO3		NO4					Sm				
	419	NO1		NO3							Sm				
	420	NO1	NO2	NO3		NO4					Sm	Sd			
	421	NO1	NO2	NO3	NO4						Sm	Sd			
	422	NO1		NO2	NO4	NO3					Sm				
	423	NO1		NO3	NO4						Sm				
Not for this model	424														
Not for this model	425														
Not for this model	426														
	430	NO1	NO2	NO3		NO4					Sm	Sd	Sr		
Not for this model	431														
6 Relay Model		Compressor	Defrost	Fan	Alarm	Light	Heater	Humidify	Cond Fan	Comp 2	S1	S2	DI1	DI2	S5
6B07	601	NO5	NO6	NO1							Sm	Sd			
	602	NO5		NO1	NO4						Sm				
	603	NO5		NO1		NO3					Sm				
Default	606	NO5		NO1	NO4	NO3					Sm	Sd			
	607	NO5		NO1	NO4	NO3					Sm				
	608	NO5		NO1	NO4		NO6				Sm				
	609	NO5	NO6	NO1		NO3			NO2		Sm	Sd	Sc		
	610	NO5	NO1	NO2	NO4	NO3				NO6	Sm	Sd			
	611	NO5	NO6	NO1	NO4	NO3			NO2		Sm	Sd	Sc		
	612	NO5		NO1				NO2			Sm				Shu
	613	NO5		NO1			NO6	NO2			Sm				Shu
	614	NO5		NO1	NO4			NO2			Sm				Shu
	615	NO5	NO6	NO1	NO4	NO3		NO2			Sm	Sd			Shu
	619	NO5	NO6	NO1	NO4	NO3					Sm	Sd	Sr		
	620			NO1	NO4	NO3	NO6				Sm				

Sm	Air off Temperature
Sd	Defrost temperature
Sr	Air on temperature
Sc	Condenser Temperature
Shu	Humidity Rh%

APPLICA mobile app

Get Started

Please scan the QR code and open the Carel iJW info page.
Select the Carel Applica mobile app from the App Store or Google Play to download.
The Carel iJW info link also includes the latest iJW documentation and video tutorials. If you have already installed Carel Applica on your mobile device, please start with the 6 easy steps below:



1. Ensure the iJW controller features Bluetooth connectivity, indicated by the Bluetooth icon on the box.

2. Unpack the iJW controller and connect 230V power supply to terminal **L** and **N**.

3. If it's safe to do, then turn on the iJW controller.

4. Please ensure the Bluetooth is turned on in your mobile.

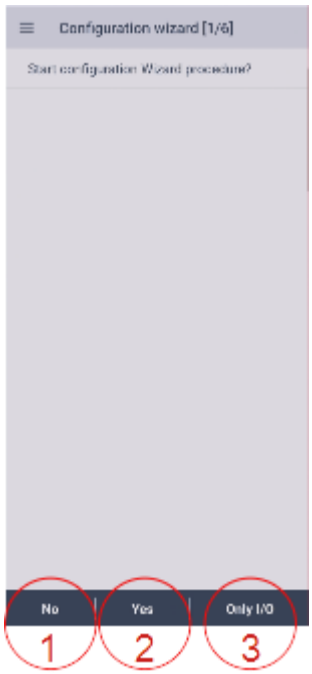
5. Start the Carel Applica and select the connection option at the bottom of the app screen → Bluetooth

6. Carel Applica will scan for available devices. Please ensure you're in close proximity of the iJW controller of less than 10m and the iJW controller will be displayed in Carel Applica with the serial identification number printed on the iJW controller label.

Once the iJW controller is displayed, select the iJW from the list and Carel Applica will connect to the controller.
While the iJW controller start's flashing "bLE" in the display. Carel Applica will now ask for access authorisation, please enter password: 22

APPLICA mobile app

Wizard

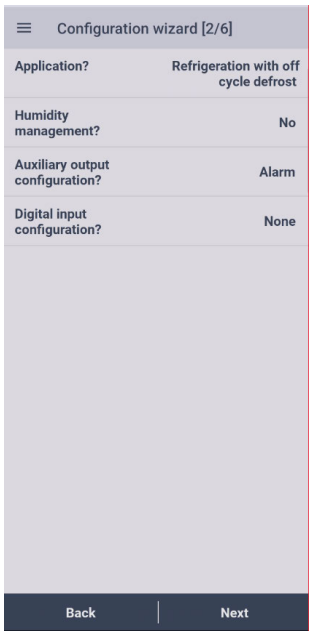


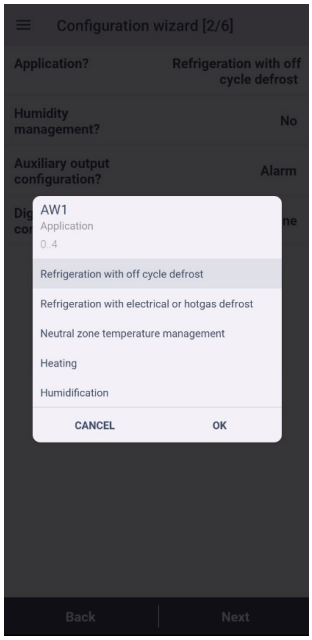
Configuration Wizard:

After you successfully connect to a new iJW controller the Carel Applica mobile app will take you to the controller setup wizard and guide you through the controller configuration. And there are three options to proceed:

1. No - proceed without wizard and controller will set to default configuration [416] please see technical leaflet for details.
2. Yes - proceed with the wizard and Applica will take you through the 6 steps below.
3. Only I/O – proceed directly to Input & Output configuration of the controller

Wizard step 2/6: Application & IO





Application?

The wizard will ask you to select the most suitable application for the controller setup. By clicking on “Application?” you will see all available options.

Humidity Management?

Will allow for the Humidity probe input.

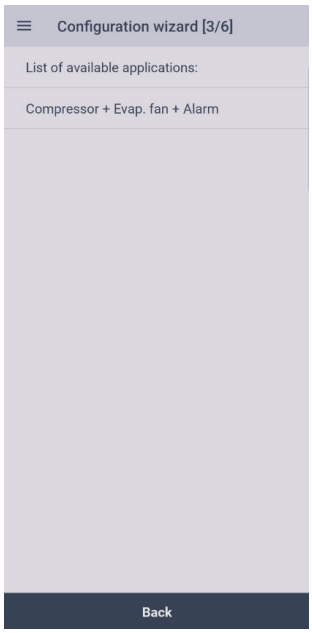
Auxiliary output configuration?

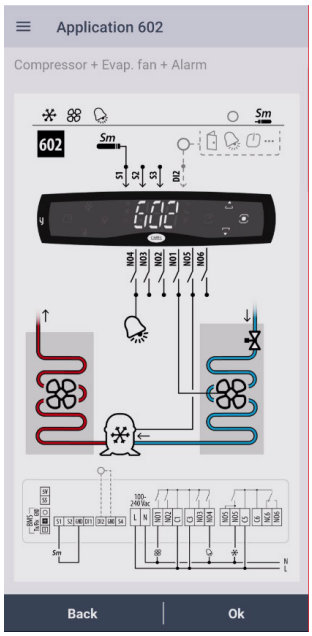
Allowing setup the function for the AUX relay.

Digital input configuration? Allowing setup of the DI input function.

Wizard

Wizard step 3/6: List of available applications

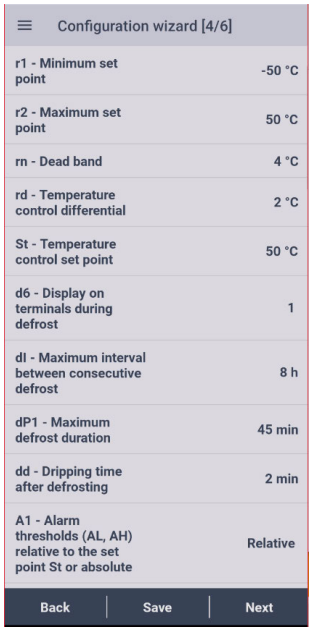




List of available applications:
The wizard step will let you select from multiple pre-setups available on the controller.
The pre-setup will depend on the application selection made under step 2.

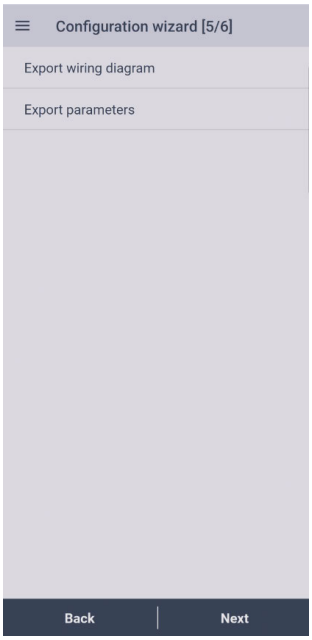
With a click on the available application pre-setup you are also able to see the matching I/O configuration in a diagram.
The diagram will also include an application number depending on the controller model. The number is referring to the available diagrams in the technical leaflet and manual (+0300103EN).
The diagram can also be exported from the app in the next step.

Wizard step 4/6: Parameter



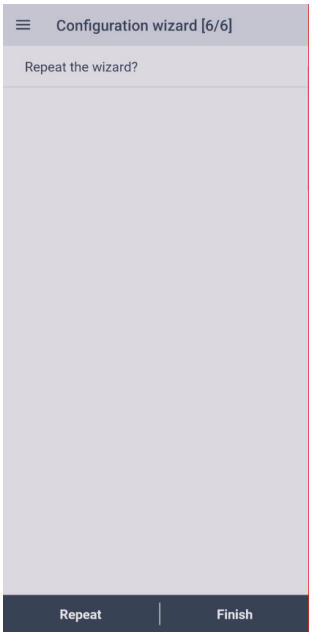
The step will allow you to set the most common parameter for the control.

Wizard step 5/6:



This will allow you to export the selected wiring diagram to your phone. But also to save the selected configuration as PDF to your phone or cloud storage.

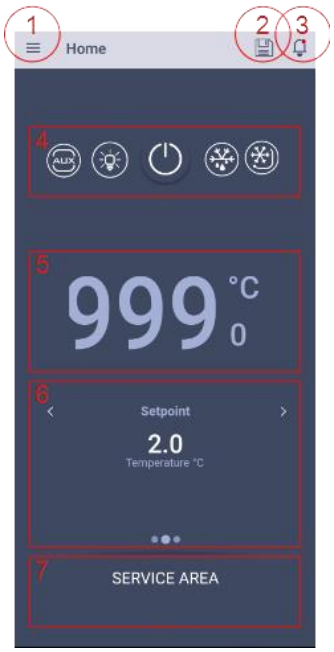
Wizard step 6/6:



Confirmation of the selected wizard configuration or option to reset the selection and start the wizard again.

APPLICA mobile app

Home Screen

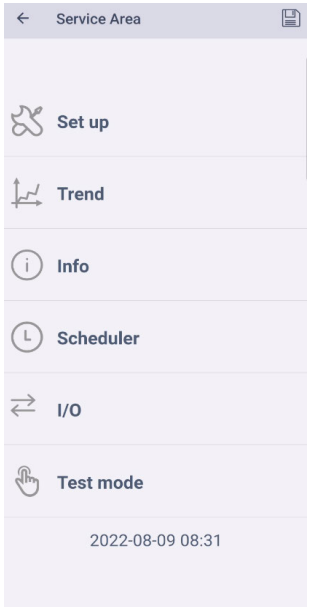


Home Screen:

Once the controller is configured and connected, Carel Applica will show you the controller status, with the following option:

1. Side Menu: access to more info, like the controller version.
2. Save Button: option to save configuration.
3. Alarm & Reset: only visible with active alarm, will show clear text alarm message.
4. Function Keys: activation of AUX, Light, On/Off, Defrost and Continuous Cycle.
5. Actual Temperature.
6. Info Panel: slide sideways for direct access for Setpoint, Inputs and Output status.
7. Service Menu: push to enter controller settings and configuration.

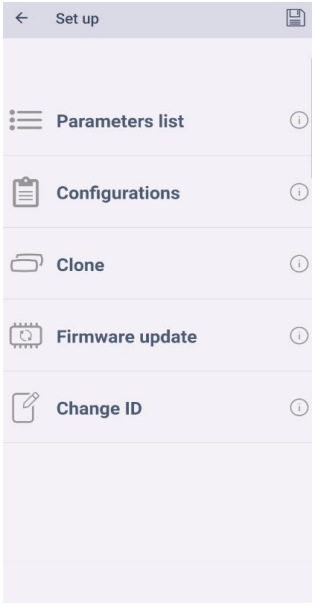
Service Area:



The Service Area allows to navigate to certain controller functions as:

- Set up: for settings
- Trend: temperature logs
- Info: controller details
- Scheduler: defrost & activity schedule
- I/O: input & output settings
- Test mode: manual operation

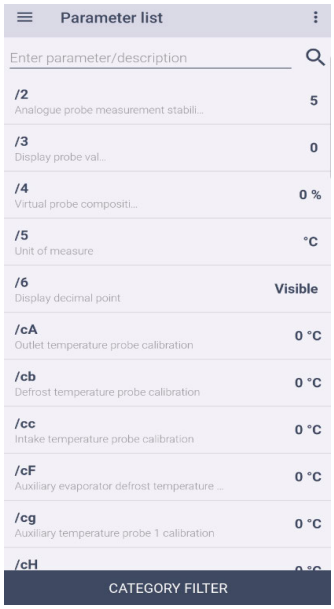
Set up:



Set up offer the following options:

- Parameter list: full parameter access
- Configuration: save & load config files
- Clone: create controller duplications
- Firmware update: apply firmware files
- Change ID: customise controller ID (Bluetooth/ NFC name)

Parameter list:



Parameter list offers the full parameter access. The parameters are sorted in alphabetical order.

But can be filtered by categories or searched for keywords or know parameter codes.

iJW Keypad Functions and Icons

Keypad	Description	On	Flashing
	Defrost	Steady lit/ can be deactivated from the keypad (not visible)	Waiting/ delayed/ can be activated from the keypad
	On/Off	Wake up controller - Steady lit/ can be deactivated from the keypad (not visible)	Off/ can be activated from the keypad
	Set point	Check or change temperature / humidity setpoint	
	Up Arrow	Increase value Scroll menu and parameters Can be set to turn on auxiliary functions (Refer to parameter list)	Auxiliary function: Waiting/ delayed Can be activated from the keypad
	Program	**Press Once**: Wake up controller Enter menu branch Save value and return to parameter code **Press for 3 seconds:** Enter programming mode	
	Down Arrow	Decrease Value Scroll menu Can be set to turn on auxiliary functions (Refer to parameter list)	Auxiliary function: Waiting/Can be activated from the keypad
Icon	**Description**	**On**	**Flashing**
	Compressor	Active	Waiting
	Evaporator Fan	Active	
	Auxiliary	Active	
	Temperature	Unit of measure: Temperature °C/°F	
	Relative Humidity	Unit of measure: relative Humidity %rH	
	HACCP Alarms	Active HACCP alarms	
	Service-Maintenance	Active alarms	

Programming

Accessing Display Configuration Parameters

- Press and hold program till “PSD” (password prompt) appears
- Tap program once again and “0” appears (skip steps 2 & 3 password for User settings
- Press to increase value on display to 22 then press for Service settings
- Press to browse category blocks then press program to select the relevant category
- Press to navigate to appropriate parameter code then press program to insert correct value
- Press to select desired value then tap program once to confirm new value and return to parameter code level
- Press to find Escape “ESC” on parameter level, then press program to return to category level
- Press to find Escape “ESC” again on category level then press program to return to normal temperature display

Setpoint Change

- Tap the Program button once or till the setpoint icon appears.
- Press and hold for 3 seconds or until the current set point appears.
- Press Up arrow or Down arrow on the right side of the display to change set point
- Press Program once to confirm new set point value and exit to temperature display

Manual Defrost

- Tap the Program button once and the defrost icon will appear
- Press and hold for 3 seconds until ‘On’ appears and icon stops flashing
- The defrost icon will be lit up to indicate defrost cycle has been activated
- To manual terminate/ deactivate the defrost cycle from the keypad, press and hold for 3 seconds again until OFF appears

iJW Keypad Parameters

Block	Code	Parameter	Unit	Min.	Max.	Def.	New
dir	Fr	Firmware revision			Read Only		
	ECo	Activate Eco mode		off	on	off	
	SrG	Control probe	°C		Read Only		
	Sm	Air Off Probe	°C		Read Only	* /Fa = >0	
	Sd	Defrost Probe	°C		Read Only	* /Fb = >0	
	SHu	Humidity Probe	%rH		Read Only	* /FP = >0	
	btE	Enable Bluetooth (on models where present)		0	1	1	
	nFE	Enable parameter copy from NFC to controller		0	1	0	
	ESC	Return to block menu					
Ctl	St	Regulation temperature setpoint	°C	r1	r2	50	
	rd	Regulation temperature differential	°C	0.1	99.9	2	
	Sth	Humidity set point	%rH	0	100	90	
	rdh	Humidity differential	%rH	0.1	99.9	5	
	iS	Wizard Configuration type to upload - refer to external documentation	-	-	-	-	
	r1	Minimum temperature setpoint	°C	-99	r2	-50	
	r2	Maximum temperature setpoint	°C	r1	200	50	
	rn	Neutral zone	°C	0	60	4	
	/4	Virtual probe composition 0= Air off (Sm) 100= Air On (Sr)	%	0	100	0	
	rSC	Restore to default settings	-	0	1	0	
	ESC	Return to block menu					
Pro	/5	Unit of Measure: 0 = °C, 1 = °F	°C/°F	0	1	0	
	/6	Decimal point visualization in main mask: 0=Visible, 1=Not visible	-	0	1	0	
	/cA	Outlet temperature probe offset calibration	°C	-20	20	0	
	/cb	Defrost temperature probe offset calibration	°C	-20	20	0	
	/cc	intake temperature probe offset calibration	°C	-20	20	0	
	/nE	Keypad disabling 0 = enabled; 1 = disabled; 2 = on/off disabled; 3 = on/off and access to setpoint disabled					
	/t1	Display on user terminal: 0= No config, 1=S1, 2=S2, 3=S3, 4=S4,5=S5, 6=S6, 7=S7, 9=control probe, 10=virtual probe, 15=setpoint	-	0	15	9	
	/P1	Configuration probe: S1, S2, S4 0=PT1000 1=PTC 2=NTC 3=NTC-LT 4=NTC-HT	-	0	4	2	
	/P2	Configuration probe: S3, DI1 0=PT1000 1=PTC 2=NTC 3=NTC-LT 4=NTC-HT 5=Dig.Input	-	0	5	5	
	ESC	Return to block menu					
dEF	d0	Defrost type (0=elec / temp,1=hot gas / temp 2=elec / time, 3=hot gas / time, 4=elec & temp / time)	flag	0	4	0	
	dI	Defrost Interval	hours	0	250	8	
	dP1	Maximum defrost duration	min	1	250	30	
	dt1	End defrost temperature read by Sd	°C	-50	200	4	
	d4	Defrost at power up (0=no, 1=yes)	flag	0	1	0	
	d8	Bypass alarms after defrost	hours	0	15	1	
	dd	Dripping time after defrost	min	0	15	2	
	ESC	Return to block menu					

* visible only if parameter is set.

iJW Keypad Parameters

HcP	rHP	Reset HACCP event log	flag	0	1	0	
	Han	Number of type HA alarms (read-only)	Read Only				
	HfN	Number of type HF alarms (read-only)	Read Only				
	ESC	Return to block menu					
CnF	Hb	Disable buzzer (0=enabled, 1=disabled)	min	0	1	1	
	H0	Serial address	-	1	247	1	
	GF1	Second function configuration of the up arrow 0 = Off 1 = Light 2 = Aux 3 = Continous Cycle 4 = Pull down 5 = Setpoint Night/Day/Summer/Winter	-	0	5	0	
	GF2	Second function configuration of the down arrow 0 = Off 1 = Light 2 = Aux 3 = Continous Cycle 4 = Pull down 5 = Setpoint Night/Day/Summer/Winter	-	0	5	0	
	GF	Configuration of the AUX button 0= not configured; 1= Light; 2= Auxiliary; 3= Continuous cycle	Large model only				
	bn	Keypad operating mode: 0 = wake up; 1 = locked		0	1	0	
	ESC	Return to block menu					
CnP	C0	Delay to enable solenoid/compressor and evaporation fans at power-on	min	0	15	0	
	c1	Min time between consecutive compressor starts					
	c2	Minimum compressor OFF time (Smartcella)	min	0	15	0*	
	c3	Minimum compressor ON time	min	0	15	0	
	ESC	Return to block menu					
ALn	A1	Type of alarm for AL and AH (0=relative, 1=absolute)	°C	0	1	0	
	AH	High alarm temp (see A1 for absolute or relative)	°C	0	555	0.0	
	AHA	Absolute High temperature alarm threshold	°C	-50	200	0.0	
	AL	Low alarm temp (see A1 for absolute or relative)	°C	0	200	0.0	
	ALA	Absolute Low temperature alarm threshold	°C	-50	200	0.0	
	Ad	Delay time for High and low temperature alarms (AL,AH)	min	0	240	120	
	Add	Door Alarm and Bypass High temp after defrost alarm	min	1	240	5	
	rSA	Reset alarms function		0	1	0	
	rAL	Alarm Log reset function		0	1	0	
	ESC	Return to block menu					
Fan	F0	Evaporator Fan management 0 = Always on; 1=Sd - Sv; 2=Sd; 3=Sv	-	0	3	0	
	F1	Fan Activation temperature	°C	-50	50	-5	
	F2	Fans with comp off: 0=On 1=Off 2= Cycles to avoid stratification 3= Dehumidification cycles	-	0	3	1	
	F3	Fans in defrost (0=on, 1=off)	flag	0	1	1	
	Fd	Fans delay after dripping	min	0	15	2	
	Fpd	Evaporator fans during post dripping 0=On 1=Off	flag	0	1	1	
	ESC	Return to block menu					

These are the parameters that are available from the device display

The full parameter list is accessible via the APPLICA app

Default Setting Changes

With the new iJW series some of the default settings have been changed.
Please find a comparison of the initial default settings in the table below:

Block	Code	Description	Level	Unit	**Default iJW**	Default IR33+	
						MT	LT
Ctl	St	Regulation temperature setpoint	user	°C	**50**	2	-18
dEF	dP1	Maximum defrost duration	service	min	**45**	30	30
CnF	H0	Serial Address	service	-	**1**	195	195
cMP	C2	Minimum compressor off time	service	min	**3**	2	2
FAN	F2	Fans with comp off	service	-	**1**	-	1
	F3	Fans in defrost	service	-	**1**	-	1
	Fd	Fan delay after drip time	service	min	**2**	-	1
	Fpd	Fans in post drip time	service	-	**1**	-	-

Important: please change setting F2 and F3 according to the application:

Parameter	**MT**	**LT**
F2	0	0
F3	0	1

Additionally, some of the parameter codes have been changed, please find the comparison of the changed parameter codes below:

IR33+	**iJW**	**Description**	**Level**	**Unit**	**Default**
/P	/P1	Configuration probe S1, S2, S4	service	-	0
*NA	/P2	Configuration probe S3	service	-	5
/tI	/t1	Reading on user terminal	service	-	9
/tE	/t2**	Reading on remote display	service	-	0
/A2, /A3, /A4	/FA, /Fb, /Fc,…	Assign temperature probe per function	service	-	
/c1, /c2, /c3, /c4	/cA, /cb, /cc	Temperature probe calibration per function	service	-	
r3	r30	Control mode	service	-	0
c7	cPt	Maximum pump down time	service	sec	0
d3	d15	Defrost start delay	service	min	0
d8d	Add	High temperature alarm bypass after door opening	service	min	5
d9	c7	Defrost priority over continuous cycle	service	-	0
d12	d7	Advanced defrost: Skip defrost	service	-	0
A4, A5	DIA, Dib, DIc,…	Assign digital inputs per function	service	-	
A8	A3	Enable alarm Ed1 and Ed2, defrost by timeout message	service	min	30
ALF	AF	Frost protection alarm threshold	service	°C	-5
AdF	Afd	Frost protection alarm delay time	service	min	1
Ado	H14	Light management after door closing	service	min	0
F5	F5d	Condenser Fan activation differential	service	°C	5
H1	DOA, DOb, DOc,…	Assign digital outputs per function	service	-	
H2	/nE	User terminal lock	service	-	0
H4	Hb	Buzzer enable	service	-	1
H6	-	Terminal button lock	-	-	-
H9	-	Setpoint variation with scheduler	-	-	-
tof/ ton	tE1/ tS1	End and Start time bands	service	-	

**Model dependant. Current models do not support the remote display function.

Alarms list

Code	Description	Alarm relay	Reset	Control
Afr	Frost Protection	On	Auto	Compressor Off
AtS	Restart in pump down	Off	Auto	
CE	Configuration write error	Off	Auto	
CHt	High condensing temperature alarm	Off	Manual	Compressor Off
cht	High condensing temperature warning	Off	Auto	
dA	Delayed alarm from external contact	On	Auto	Compressor duty cycle (A6)
Ed1	Defrost terminated after maximum time	Off	Auto	
Ed2	2nd Evap Defrost terminated after maximum time	Off	Auto	
EH1	High power supply voltage alarm	On	Auto	
EL0	Low power supply voltage alarm	On	Auto	
Etc	Clock error	Off	Manual	Time bands disabled
GHI	Generic high alarm threshold	On	Auto	
GL0	Generic low alarm threshold	On	Auto	
HA	HA HACCP alarm (high temp during operation)	Off	Manual	
HF	HF HACCP alarm (high temp after blackout)	Off	Manual	
dor	Door open	On	Auto	
E1	Probe 1 faulty or disconnected	Off	Auto	Pending on function
E2	Probe 2 faulty or disconnected	Off	Auto	Pending on function
E3	Probe 3 faulty or disconnected	Off	Auto	Pending on function
E4	Probe 4 faulty or disconnected	Off	Auto	Pending on function
E5	Probe 5 faulty or disconnected	Off	Auto	Pending on function
HI	High temperature alarm	On	Auto	
IA	Immediate alarm from external contact	On	Auto	Compressor duty cycle (A6)
L0	Low temperature alarm	On	Auto	
LP	Low pressure alarm	On	Semi-Auto	Compressor off
MAn	Output status overriden in manual mode	On	Auto	
Pd	Maximum pump down time	On	Auto	
rE	Control probe faulty or disconnected	On	Auto	Compressor duty cycle (A6)
rSF	Refrigeration leak alarm	On	Manual	All outputs off
SrC	Maintenance request	On	Manual	
SF	Configuration not completed correctly	Off	Manual	

Active alarms are indicated by the flashing service icon  and the accompanying alarm code from the table above.

Pressing any button will mute the buzzer as an acknowledgement of the alarm

A reset alarm is stored in the alarm history.

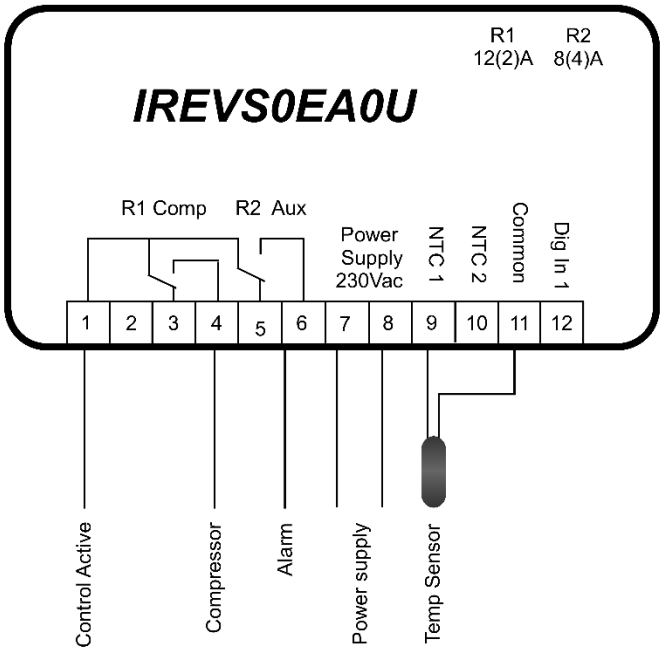
Manual reset is managed with the parameter rSA

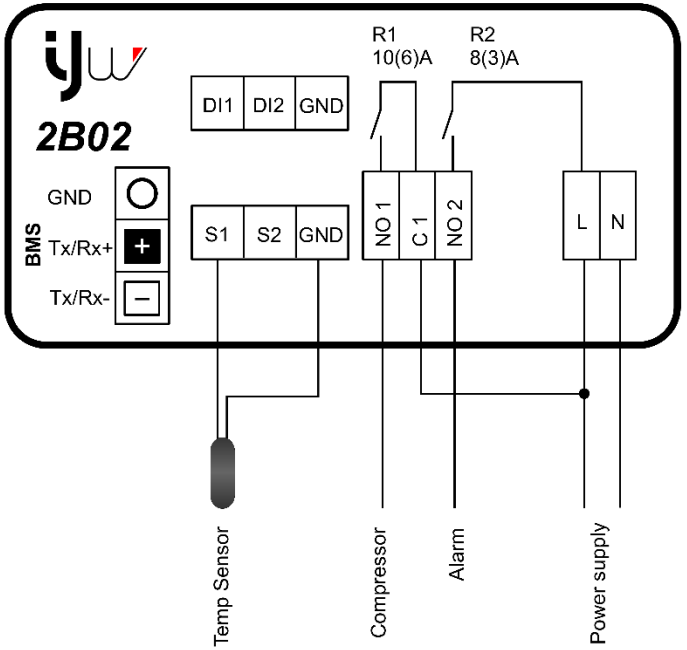
Application Drawings

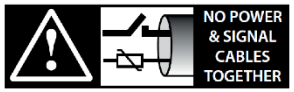
IREV to iJW

ir33+

IJW SMALL







*Check that the relay rating is suitable for the connected loads
Install an external relay or contactor for currents exceeding the relay rating

APPLICATION GUIDE

IJW Small / IR33+ MT with Alarm 230Vac Wizard #205

CAREL SERVICES

Phone 02-8762 9200
Email services.au@carel.com

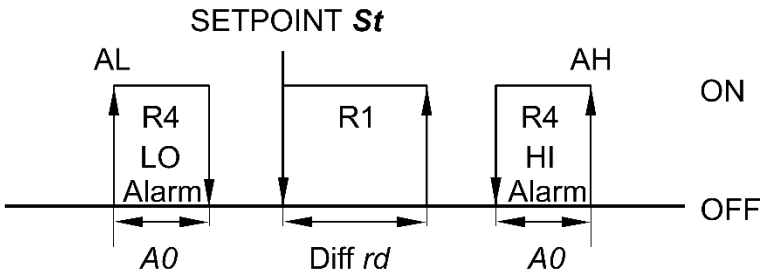
Drawn by: SS Date: 04/04/2023

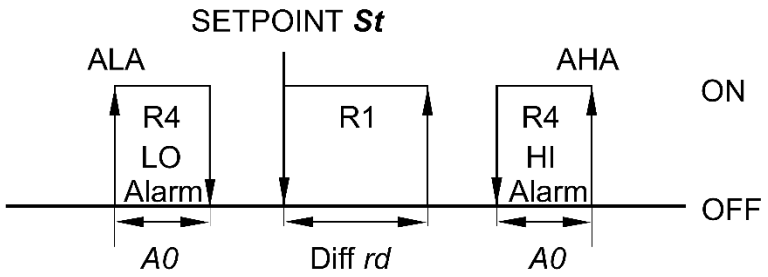
Checked by: Pv Date: 04/04/2023

Part number	Description
IJWPSA2B02S0519	IJW Small 2x Relay 230Vac BT/RTC/BMS Controller
NTC015HP03	Carel NTC Temperature Probe
IREVS0EA0U	IR33+ Panel mount controller, 2 relays

Drawing: IJW Small / IR33+ MT with Alarm Rev: 1.1

Connected
NOT Connected
Normally Open contact
Normally Closed contact





ir33+ Parameters	
CtL	**St** = Setpoint
	rd = Differential
ALn	**A1** = 1 Absolute alarms
	AL = Low temp alarm
	AH = High temp alarm
	Ad = Alarm delay (mins)
CnF	**H1** = 0 Alarm output normally energised

iJW SMALL Parameters	
CtL / *Temp Regulation	**St** = Setpoint
	rd = Differential
AIn / *Alarms	**A1** = 1 Absolute Alarms
	ALA = Low temp alarm threshold, absolute
	AHA = High temp alarm threshold, absolute
	Ad = Alarm delay (mins)
***I/O**	**rOb** = Alarm digital output logic (Normally open/ Normally closed) **

* = Category filter in Applica App
** = Only available in Applica App
*** = Info only

APPLICA

Available on the App Store

Google play

APPLICATION GUIDE

IJW Small / IR33+ MT with Alarm 230Vac Wizard #205

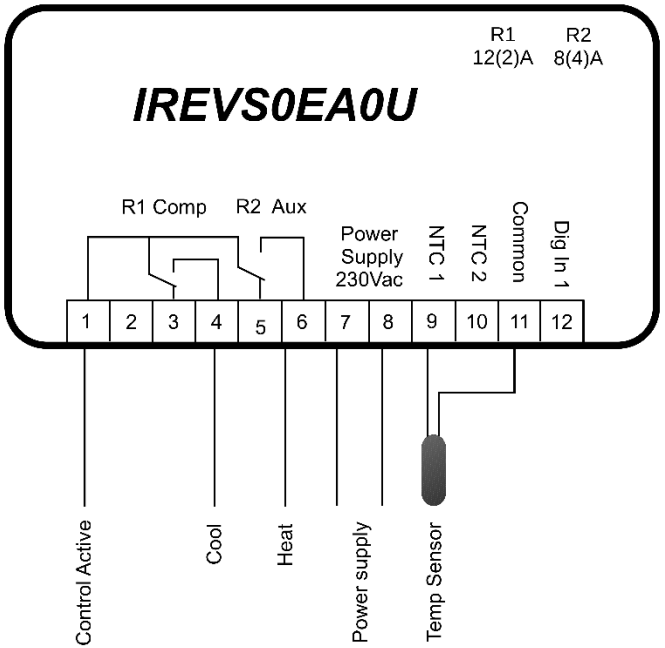
CAREL SERVICES
Phone 02-8762 9200
Email services.au@carel.com

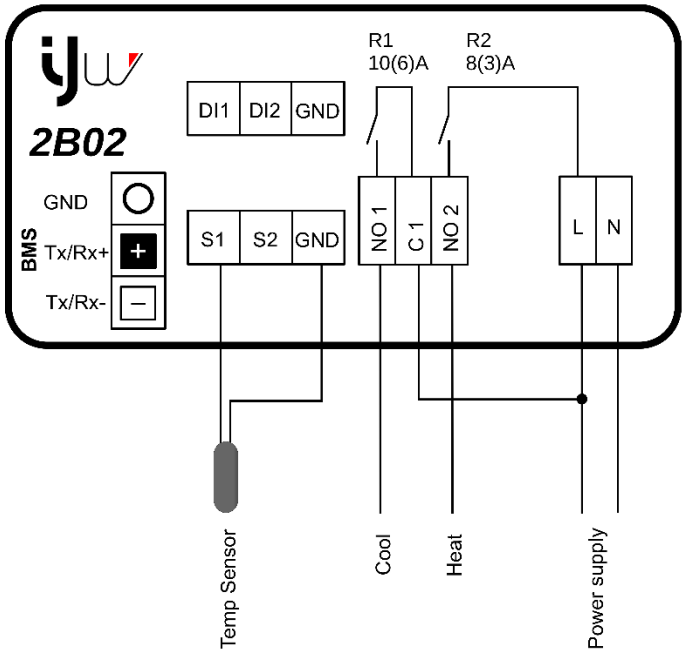
Drawn by: SS Date: 04/04/2023
Checked by: Pv Date: 04/04/2023

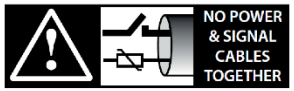
Part number	Description
IJWPSA2B02S0519	IJW Small 2x Relay 230Vac BT/RTC/BMS Controller
NTC015HP03	Carel NTC Temperature Probe
IREVS0EA0U	IR33+ Panel mount controller, 2 relays

Drawing: IJW Small / IR33+ MT with Alarm Rev: 1.1

Connected
NOT Connected
Normally Open contact
Normally Closed contact







*Check that the relay rating is suitable for the connected loads
Install an external relay or contactor for currents exceeding the relay rating

APPLICATION GUIDE

IJW Small / IR33+ MT Heat and Cool Wizard #207

CAREL SERVICES

Phone 02-8762 9200
Email services.au@carel.com

Part number	Description
IJWPSA2B02S0519	IJW Small 2 x Relay 230Vac BT/RTC/BMS Controller
NTC015HP03	Carel NTC Temperature Probe
IREVS0EA0U	IR33+ Panel mount controller, 2 relays

Drawn by: SS Date: 03/04/2023

Checked by: Pv Date: 03/04/2023

Drawing: IJW Small / IR33+ MT Heat and Cool

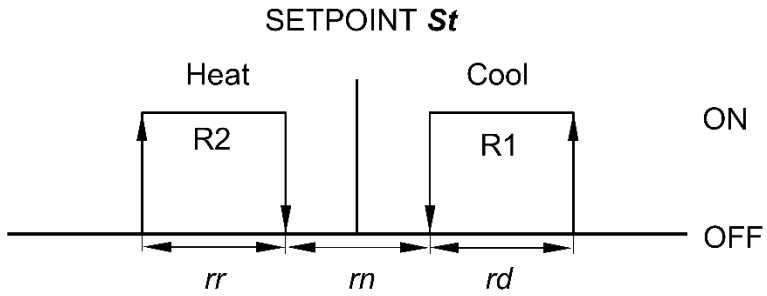
Rev: 1.1

Connected

NOT Connected

Normally Open contact

Normally Closed contact



ir33+ Parameters	
CtL	**St** = Setpoint
	rd = Differential
	rn = Neutral zone
	rr = Heating differential
	r3 = 0 - Cool + Defrost = 1 - Cool only
CnF	**H1** = 11 Aux config (Heat output)

iJW SMALL Parameters	
CtL / *Temp Regulation	**St =** Setpoint
	rd = Differential
	rn = Neutral zone**
	rr = Heating differential**

* = Category filter in Applica App
** = Only available in Applica App
*** = Info only

APPLICA

Available on the App Store

Google play

APPLICATION GUIDE

IJW Small / IR33+ MT Heat and Cool Wizard #207

CAREL SERVICES
Phone 02-8762 9200
Email services.au@carel.com

Drawn by: SS Date: 03/04/2023
Checked by: Pv Date: 03/04/2023

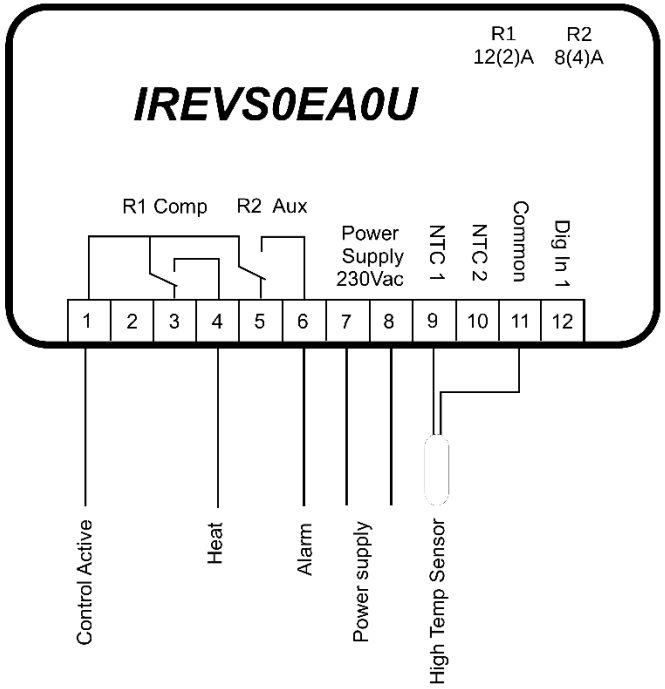
Part number	Description
IJWPSA2B02S0519	IJW Small 2 x Relay 230Vac BT/RTC/BMS Controller
NTC015HP03	Carel NTC Temperature Probe
IREVS0EA0U	IR33+ Panel mount controller, 2 relays

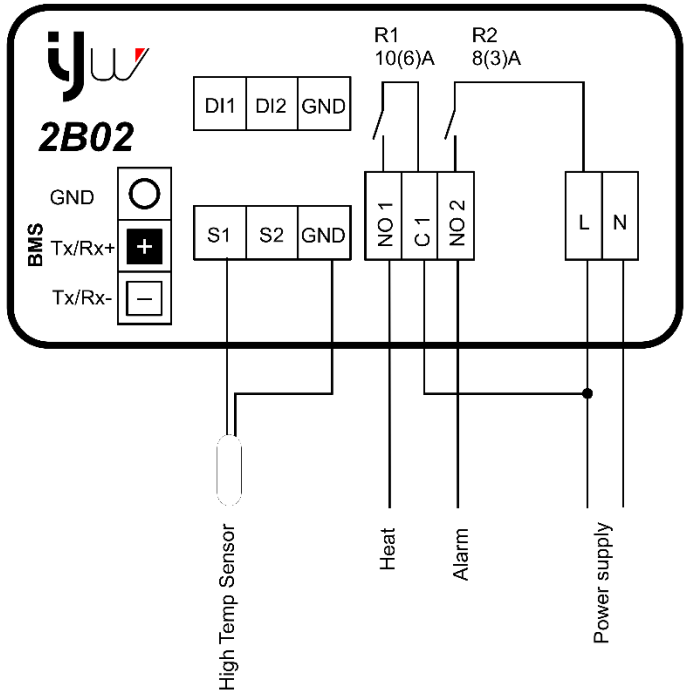
Drawing: IJW Small / IR33+ MT Heat and Cool Rev: 1.1

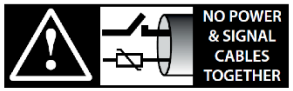
Connected
NOT Connected
Normally Open contact
Normally Closed contact

ir33+

IJW SMALL







*Check that the relay rating is suitable for the connected loads
Install an external relay or contactor for currents exceeding the relay rating

APPLICATION GUIDE

IJW Small / IR33+ MT Heat with Alarm Wizard #208

CAREL SERVICES

Phone 02-8762 9200
Email services.au@carel.com

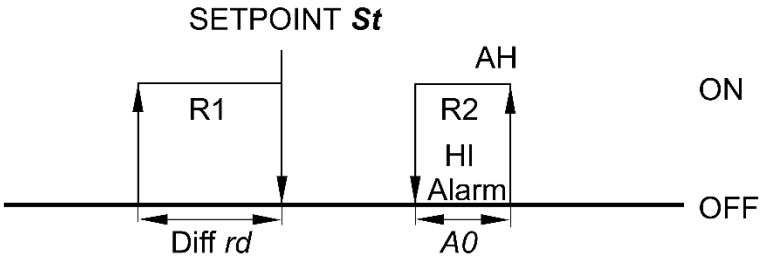
Drawn by: SS Date: 04/04/2023

Checked by: Pv Date: 04/04/2023

Part number	Description
IJWPSA2B02S0519	IJW Small 2x Relay 230Vac BT/RTC/BMS Controller
NTC015HT03	Carel NTC High Temperature Probe
IREVS0EA0U	IR33+ Panel mount controller, 2 relays

Drawing: IJW Small / IR33+ MT Heat with Alarm Rev: 1.1

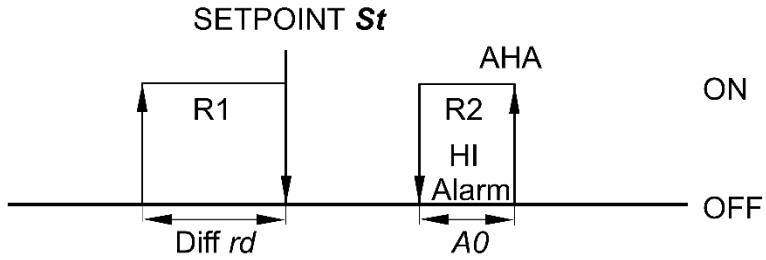
Connected
NOT Connected
Normally Open contact
Normally Closed contact



Note: Relay R2 is assigned as a general alarm relay. It will alarm in the event of any serious fault

Parameters

Pro	**/P = 1** NTC High temp sensor
CtL	**St** = Setpoint
	rd = Differential
	r2 = Max allowable setpoint
	r3 = 2 Control type (Heating)
ALn	**A1** = 1 Absolute alarms
	AH = High temp alarm
	Ad = Alarm delay (mins)
CnF	**H1** = 0 Alarm output normally energised



Parameters

Pro / *Probes	**/P1 = 4** NTC-HT (High Temp) Configuration probe S1,S2,S4
CtL / *Temp Regulation	**St =** Setpoint
	rd = differential
	r2 = Max allowable setpoint
AIn / *Alarms	**A1 =** 1 Absolute Alarms
	AHA = High temp alarm threshold, absolute
	Ad = Alarm delay (mins)
***I/O**	**Dob** = Assign Alarm Output**
	**rOb = Alarm digital output logic (Normally open/ Normally closed) **

* = Category filter in Applica App
** = Only available in Applica App
*** = Info only

APPLICA

Available on the App Store

Google play

APPLICATION GUIDE

IJW Small / IR33+
MT Heat with Alarm
Wizard #208

CAREL SERVICES
Phone 02-8762 9200
Email services.au@carel.com

Drawn by: SS Date: 04/04/2023
Checked by: Pv Date: 04/04/2023

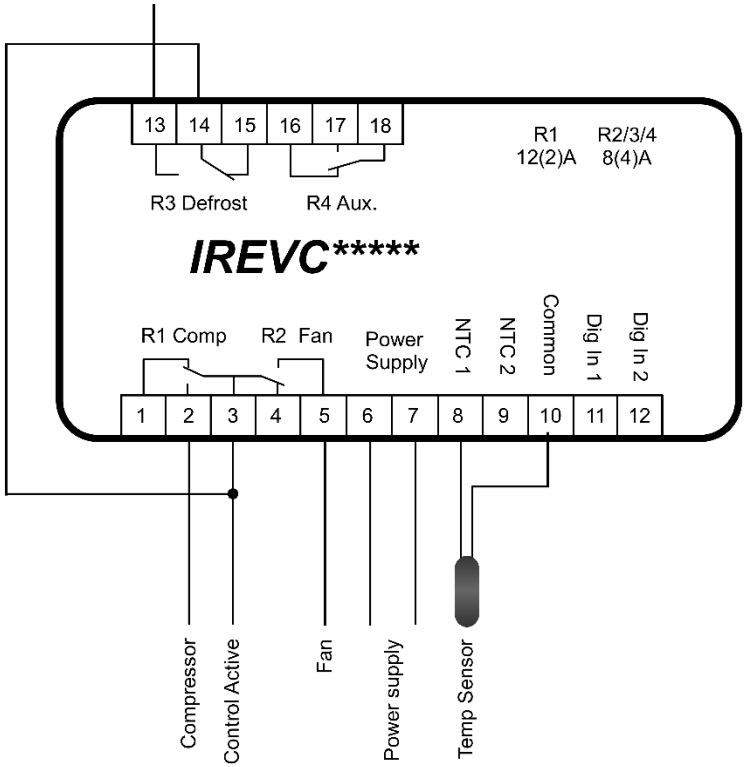
Part number	Description
IJWPSA2B02S0519	IJW Small 2x Relay 230Vac BT/RTC/BMS Controller
NTC015HT03	Carel NTC High Temperature Probe
IREVS0EA0U	IR33+ Panel mount controller, 2 relays

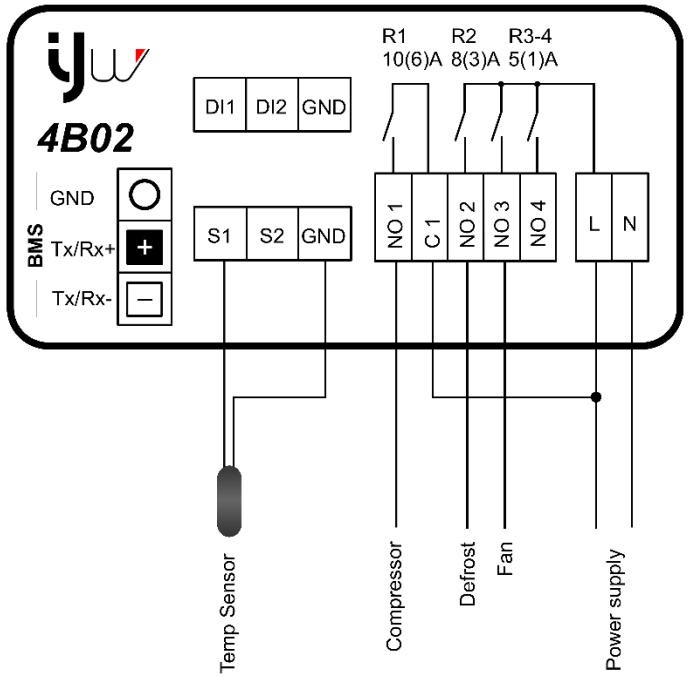
Drawing: IJW Small / IR33+ MT Heat with Alarm Rev: 1.1

Connected
NOT Connected
Normally Open contact
Normally Closed contact

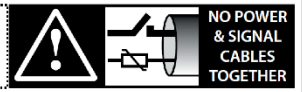
ir33+

IJW SMALL





*Please check relay rating for suitable loads.
Install external relay/contactor for heavy loads



APPLICATION GUIDE

IJW Small / IR33+
LT with single sensor
Wizard # 416

CAREL SERVICES

Phone 02-8762 9200
Email services.au@carel.com

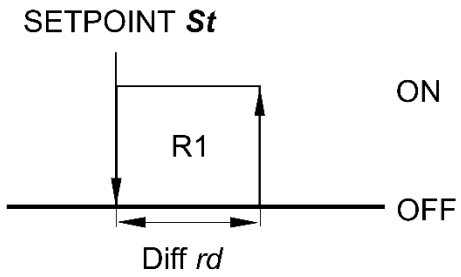
Drawn by: Pv Date: 29/03/2023

Checked by: MK Date: 29/03/2023

Part number	Description
IJWPSA4B02S0523	IJW Small 4x Relay 230Vac BT/RTC/BMS Controller
NTC015HP03	Carel NTC Temperature Probe
IREVC0HC0U	IR33+ Panel mount controller, 4 relays

Drawing: IJW Small_IR33+ LT with single sensor Rev: 1.1

Connected
NOT Connected
Normally Open contact
Normally Closed contact



ir33+ Parameters	
Pro	**/A2 = 0**
CtL	**St** = Setpoint
	rd = Differential
dEF	**d0** = 2 Time terminated defrost
	dI = Defrost intervals (hours)
	dP1 = Max def duration (mins)

iJ SMALL Parameters	
***I/O**	****/Fb** = 0 Defrost probe disabled
CtL/ *Temp Regulation	**St** = Setpoint
	rd = Differential
dEF/ *Defrost	**d0** = 0 Temp terminated defrost
	dI = Defrost intervals (hours)
	dP1 = Max def duration (mins)
FAn/ *Fan	**F2 =** 0 Fans on except in defrost

* = Category filter in Applica App
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APPLICA

Available on the App Store

Google play

APPLICATION GUIDE

IJW Small / IR33+
LT with single sensor
Wizard # 416

CAREL SERVICES
Phone 02-8762 9200
Email services.au@carel.com

Drawn by: Pv Date: 29/03/2023

Checked by: MK Date: 29/03/2023

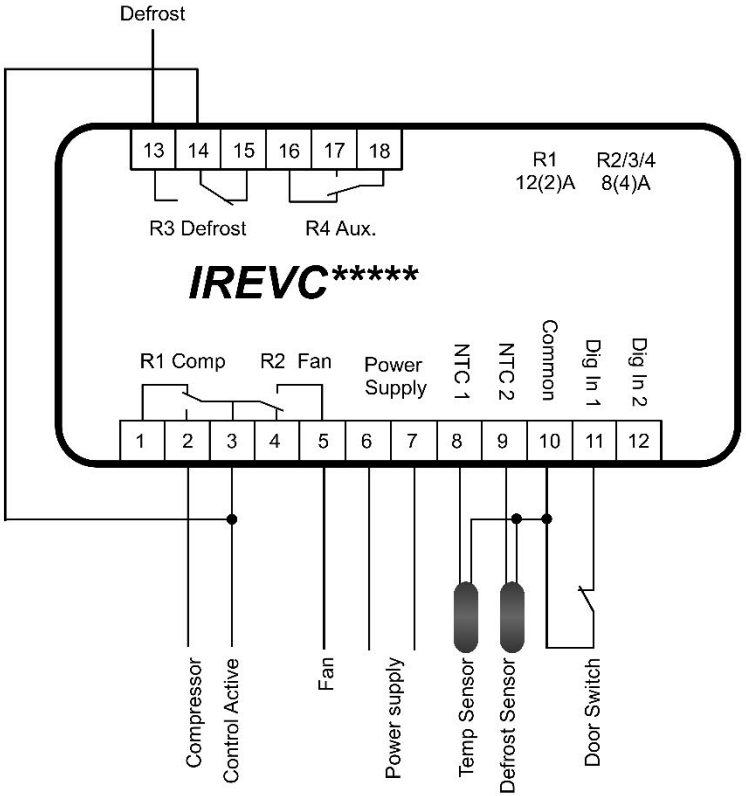
Part number	Description
IJWPSA4B02S0523	IJW Small 4x Relay 230Vac BT/RTC/BMS Controller
NTC015HP03	Carel NTC Temperature Probe
IREVC0HC0U	IR33+ Panel mount controller, 4 relays

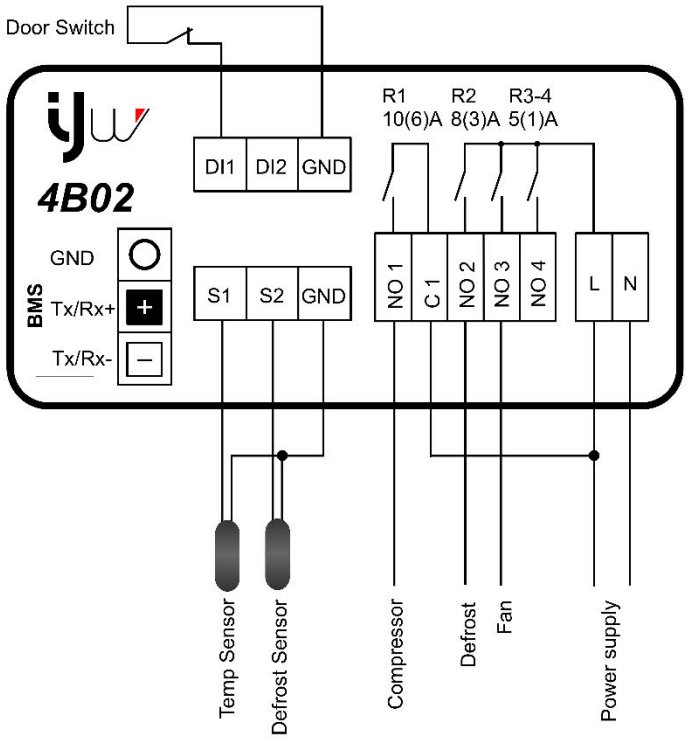
Drawing: IJW Small_IR33+ LT with single sensor Rev: 1.1

Connected
NOT Connected
Normally Open contact
Normally Closed contact

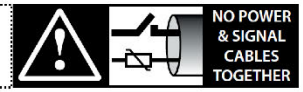
ir33+

ijw SMALL





*Please check relay rating for suitable loads.
Install external relay/contactor for heavy loads



APPLICATION GUIDE

IJW Small / IR33+
LT with door switch
Wizard # 416

CAREL SERVICES

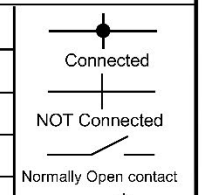
Phone 02-8762 9200
Email services.au@carel.com

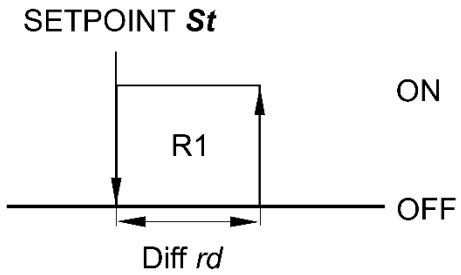
Drawn by: Pv Date: 29/03/2023

Checked by: MK Date: 29/03/2023

Part number	Description
IJWPSA4B02S0523	IJW Small 4x Relay 230Vac BT/RTC/BMS Controller
NTC015HP03	Carel NTC Temperature Probe
IREVC0HC0U	IR33+ Panel mount controller, 4 relays

Drawing: IJW Small_IR33+ LT with Door Switch Rev: 1.1





ir33+ Parameters	
CtL	**St** = Setpoint
	rd = Differential
dEF	**d0 =** 0 Temp terminated defrost
	dI = Defrost intervals (hours)
	dt1 = Defrost termination temp (°C)
	dP1 = Max def duration (mins)
ALn	**A4** = 5 Door switch with comp and fans off

iJW SMALL Parameters	
Pro/ *I/O	**dIE** = 1 Configure Door switch to ID1 (Comp+Fans off)
	****rIE** = Door switch logic 0 = NO, 1 = NC
CtL/ *Temperature Regulation	**St** = Setpoint
	rd = Differential
dEF/ * Defrost	**d0** = 0 Temp terminated defrost
	dI = Defrost intervals (hours)
	dt1 = Defrost termination temp (°C)
	dP1 = Max def duration (mins)
FAn/ *Fan	**F2 =** 0 Fans on except in defrost

* = Category filter in Applica App
** = Only available in Applica App
*** = Info only

APPLICA — Available on the App Store — Google play

APPLICATION GUIDE

IJW Small / IR33+
LT with door switch
Wizard # 416

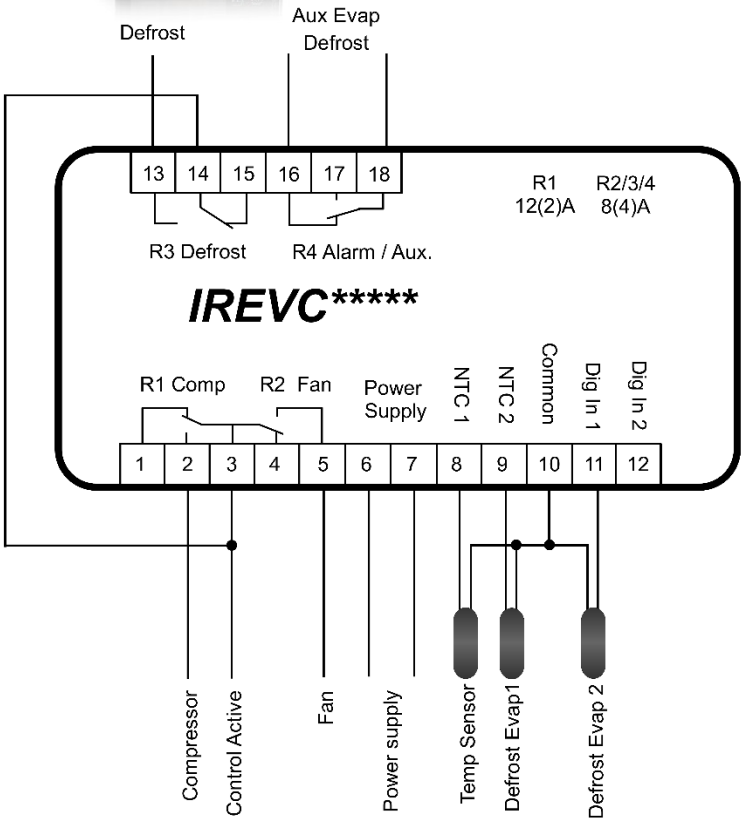
CAREL SERVICES
Phone 02-8762 9200
Email services.au@carel.com

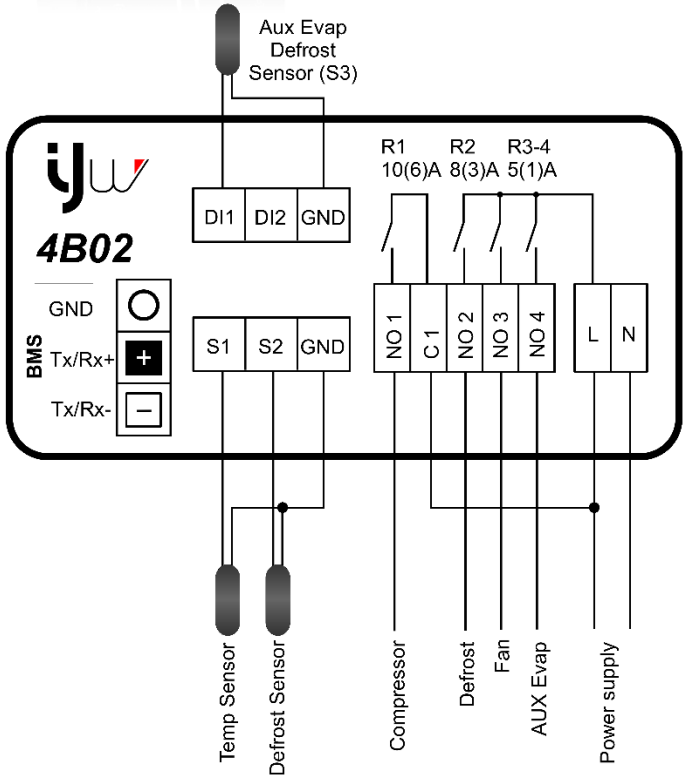
Drawn by: Pv Date: 29/03/2023
Checked by: MK Date: 29/03/2023

Part number	Description
IJWPSA4B02S0523	IJW Small 4x Relay 230Vac BT/RTC/BMS Controller
NTC015HP03	Carel NTC Temperature Probe
IREVC0HC0U	IR33+ Panel mount controller, 4 relays

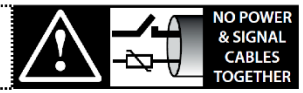
Drawing: IJW Small_IR33+ LT with Door Switch Rev: 1.1

Connected
NOT Connected
Normally Open contact
Normally Closed contact





*Please check relay rating for suitable loads.
Install external relay/contactor for heavy loads



APPLICATION GUIDE

IJW Small / IR33+ LT with Aux Evap Wizard # 416

CAREL SERVICES

Phone 02-8762 9200
Email services.au@carel.com

Part number	Description
IJWPSA4B02S0523	IJW Small 4x Relay 230Vac BT/RTC/BMS Controller
NTC015HP03	Carel NTC Temperature Probe
IREVC0HC0U	IR33+ Panel mount controller, 4 relays

Drawn by: Pv Date: 29/03/2023

Checked by: MK Date: 29/03/2023

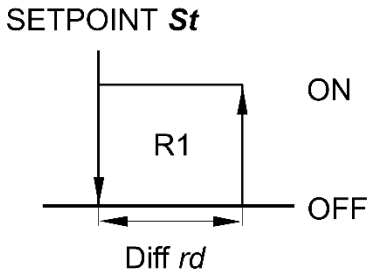
Drawing: IJW Small / IR33+ LT with Aux Evap Rev: 1.1

Connected

NOT Connected

Normally Open contact

Normally Closed contact



ir33+ Parameters	
Pro	**A3** = 4 Defrost Evap 2 sensor (S3/DI1)
CtL	**St** = Setpoint
	rd = Differential
dEF	**d0** = 0 Temperature terminated defrost
	dI = Defrost intervals (hours)
	dt1 = Defrost termination temp (°C)
	dt2 = Defrost termination temp Aux Evap (°C)
	dP1 = Max def duration (mins)
	dP2 = Max def duration Aux Evap (mins)
CnF	**H1** = 4 Aux Evap defrost

IJW SMALL Parameters	
Pro/ *I/O	****/d2 =** 6 Assign end defrost probe Aux evap
	****/FF** = 3 Assign Aux evap defrost probe S3
	/P2 = 2 NTC Probe S3/DI1
CtL/ *Temp Regulation	**St** = Setpoint
	rd = Differential
dEF/ *Defrost	**d0** = 0 Temp terminated defrost
	dI = Defrost intervals (hours)
	dt1 = Defrost termination temp (°C)
	dt2 = Defrost termination Aux Evap temp (°C)
	dP1 = Max def duration (mins)
	dP2 = Max def duration Aux Evap (mins)
FAn/ *Fan	**F2 =** 0 Fans on except in defrost
***I/O**	****DOH** = 4 Aux defrost output assigned to DO4

* = Category filter in Applica App
** = Only available in Applica App
*** = Info only

APPLICA — Available on the App Store — Google play

APPLICATION GUIDE

IJW Small / IR33+ LT with Aux Evap Wizard # 416

CAREL SERVICES
Phone 02-8762 9200
Email services.au@carel.com

Drawn by: Pv Date: 29/03/2023

Checked by: MK Date: 29/03/2023

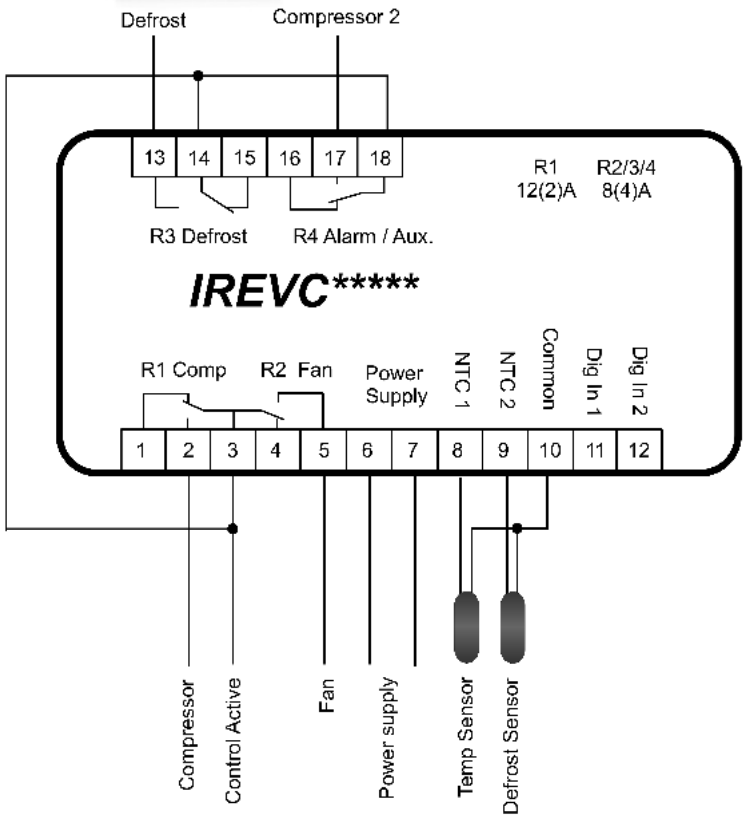
Part number	Description
IJWPSA4B02S0523	IJW Small 4x Relay 230Vac BT/RTC/BMS Controller
NTC015HP03	Carel NTC Temperature Probe
IREVC0HC0U	IR33+ Panel mount controller, 4 relays

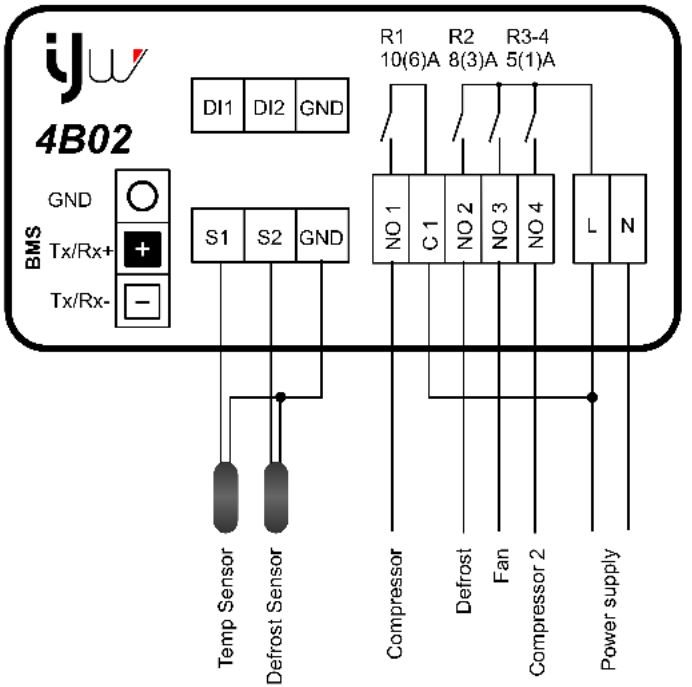
Drawing: IJW Small / IR33+ LT with Aux Evap — Rev: 1.1

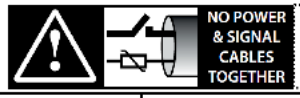
Connected
NOT Connected
Normally Open contact
Normally Closed contact

ir33+

ijw SMALL







*Check that the relay rating is suitable for the connected loads
Install an external relay or contactor for currents exceeding the relay rating

APPLICATION GUIDE

IJW Small / IR33+
LT - 2 staged Compressors:
Wizard #416

CAREL SERVICES

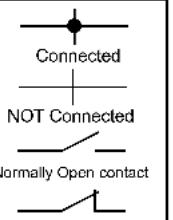
Phone 02-8762 9200
Email services.au@carel.com

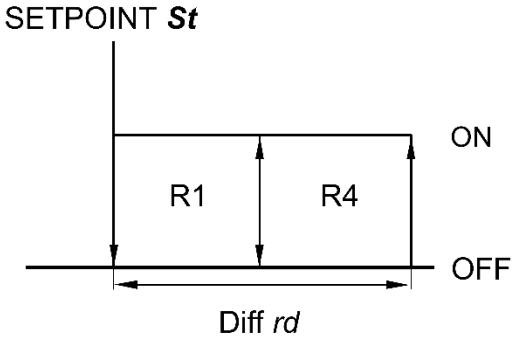
Drawn by: MK Date: 29/03/2023

Checked by: SS Date: 29/03/2023

Part number	Description
IJWPSA4B02S0523	IJW Small 4x Relay 230Vac BT/RTC/BMS Controller
NTC015HP03	Carel NTC Temperature Probe
IREVC0HC0U	IR33+ Panel mount controller, 4 relays

Drawing: IJW Small / IR33+ LT - 2 staged compressors Rev: 1.1





IR33+	Parameters
CtL	**St** = Setpoint
	rd = Differential
CMP	**c11** = 2nd compressor start delay (sec)
dEF	**d0** = 0 Temp terminated defrost
	dI = Defrost intervals (hours)
	dt1 = Defrost termination temp (°C)
	dP1 = Max def duration (mins)
CnF	**H1** = 12, 2nd compressor w/o rotation 13, 2nd compressor with rotation

iJW SMALL	Parameters
CtL / *Temp Regulation	**St** = Setpoint
	rd = Differential
cMP / *Compressor	**c11** = 2nd compressor start delay (sec)**
dEF / *Defrost	**d0** = 0 Temp terminated defrost
	dI = Defrost intervals (hours)
	dt1 = Defrost termination temp (°C)
	dP1 = Max def duration (mins)
FAn/ *Fan	**F2 =** 0 Fans on except in defrost
***I/O**	**DOk** = 4, assign 2nd compressor w/o rotation to NO4**
	rOk = 0, 2nd compressor w/o rotation output logic N.O.**
	Alternatively for compressor <u>with</u> rotation setup:
	DOy = 4, assign 2nd compressor with rotation to NO4**
	rOy = 0, 2nd compressor with rotation output logic N.O.**

* = Category filter in Applica App
** = Only available in Applica App

CAREL APPLICA

Available on the App Store

Google play

APPLICATION GUIDE

IJW Small / IR33+
LT - 2 staged Compressors:
Wizard #416

CAREL SERVICES
Phone 02-8762 9200
Email services.au@carel.com

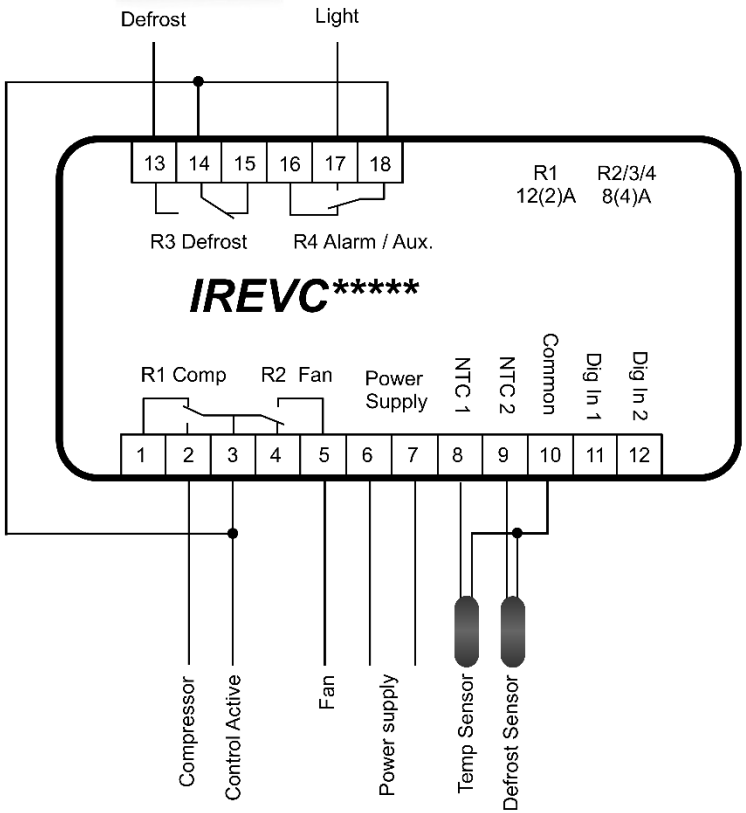
Drawn by: MK Date: 29/03/2023

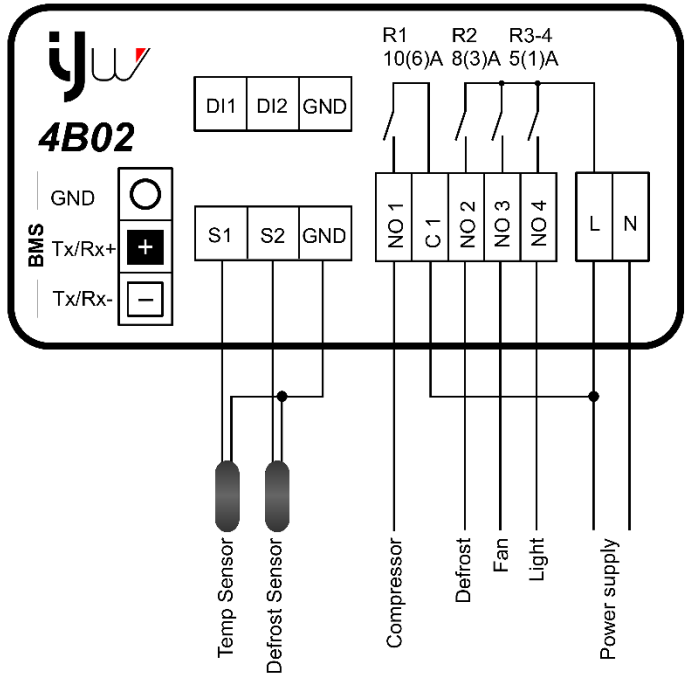
Checked by: SS Date: 29/03/2023

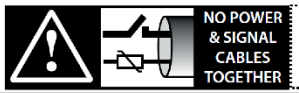
Part number	Description
IJWPSA4B02S0523	IJW Small 4x Relay 230Vac BT/RTC/BMS Controller
NTC015HP03	Carel NTC Temperature Probe
IREVC0HC0U	IR33+ Panel mount controller, 4 relays

Drawing: IJW Small / IR33+ LT - 2 staged compressers Rev: 1.1

Connected
NOT Connected
Normally Open contact
Normally Closed contact







*Check that the relay rating is suitable for the connected loads
Install an external relay or contactor for currents exceeding the relay rating

APPLICATION GUIDE

IJW Small / IR33+
LT with set point shift using
RTC
Wizard #420

CAREL SERVICES

Phone 02-8762 9200
Email services.au@carel.com

Drawn by: MK Date: 03/04/2023

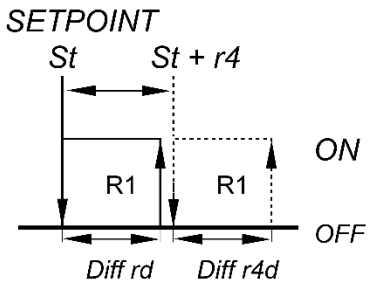
Checked by: SS Date: 03/04/2023

Part number	Description
IJWPSA4B02S0523	IJW Small 4x Relay 230Vac BT/RTC/BMS Controller
NTC015HP03	Carel NTC Temperature Probe
IREVC0HC0U	IR33+ Panel mount controller, 4 relays

Drawing: IJW Small IR33+ LT RTC setpoint shift Rev: 1.1

Connected
NOT Connected
Normally Open contact
Normally Closed contact

IR33+ Parameters	
CtL	**St** = Setpoint
	rd = Differential
	r4 = Setpoint variation
CnF	**H1** = 3, AUX selection
	H8 = 1, AUX switched by schedule
	H9 = 1, Enable setpoint shift by schedule
rtc	**ton** = Regular setpoint start time (day time)
	d_ = day of the week (1..7 = Mon...Sun; 8= Mon- Fri; 10= Sat- Sun; 11= everyday)
	h_ = hour of schedule
	n_ = minute of schedule
	toff = Apply setpoint shift start time (night time)
	d_ = day of the week
	h_ = hour of schedule
	n_ = minute of schedule
	tc = Current time and date
	y_ = current year
	N_ = current month
	d_ = day of the month
	u_ = day of the week (1 = Mon)
	h_ = current hour
	n_ = current minute



APPLICA

Available on the App Store

Google play

* = Category filter in Applica App
**= Only available in Applica App
*** = Info only

iJW SMALL Parameters	
CtL / *Temp Regulation	**St** = Setpoint
	rd = Differential
	r4 = Setpoint variation**
	r4d = Setpoint shift regulation differential**
	r6 = Control probe selection for setpoint shift** (0= Virtual probe; 1 = Air Return probe)
FAn/ *Fan	**F2 =** 0 Fans on except in defrost
***I/O**	**DOE** = 4, Light output assigned to DO4**
	rOE = 0, Light output normally open N.O.**
	H8 = 0, Light switched by scheduler**
***Scheduler**	**tS1-d..tS8-d** = Start time band days** 1..7= Mon..Sun; 8= Mon- Fri; 10= Sat- Sun; 11= everyday
	tS1-hh..tS8-hh = hour of schedule starts**
	tS1-mm..tS8-mm = minute of schedule starts**
	tE1-d... tE8-d = End time band days**
	tE1-hh..tE8-hh = hour of schedule ends**
	tE1-mm..tE8-mm = minute of schedule ends**
	Setup scheduler use app and open service area > Scheduler
***RTC**	**rtA** = current date and time***
	setup actual time use app and open side menu: Settings > Device > Set date/ time

APPLICATION GUIDE

IJW Small / IR33+
LT with set point shift using RTC
Wizard #420

CAREL SERVICES
Phone 02-8762 9200
Email services.au@carel.com

Drawn by: MK Date: 03/04/2023
Checked by: SS Date: 03/04/2023

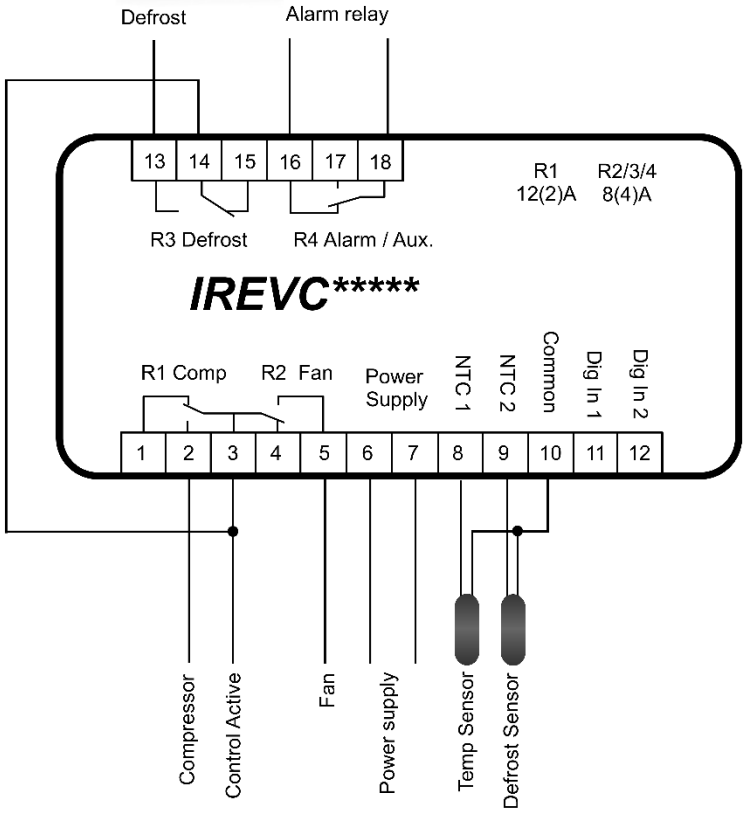
Part number	Description
IJWPSA4B02S052(	IJW Small 4x Relay 230Vac BT/RTC/BMS Controller
NTC015HP03	Carel NTC Temperature Probe
IREVC0HC0U	IR33+ Panel mount controller, 4 relays

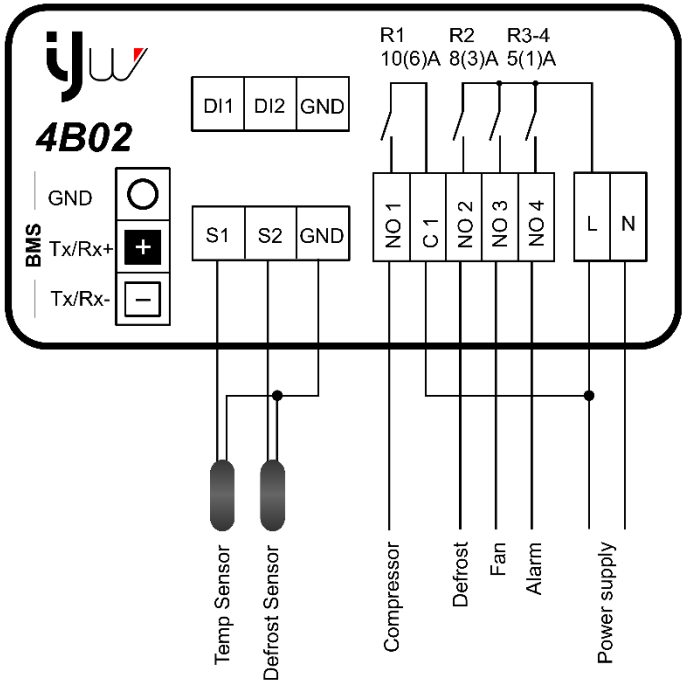
Drawing: IJW Small IR33+ LT RTC setpoint shift Rev: 1.1

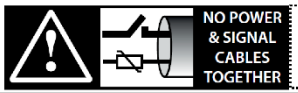
Connected
NOT Connected
Normally Open contact
Normally Closed contact

ir33+

ijw SMALL







*Check that the relay rating is suitable for the connected loads
Install an external relay or contactor for currents exceeding the relay rating

APPLICATION GUIDE

IJW Small / IR33+ LT with RTC defrost Wizard #421

CAREL SERVICES

Phone 02-8762 9200
Email services.au@carel.com

Drawn by: MK Date: 03/04/2023

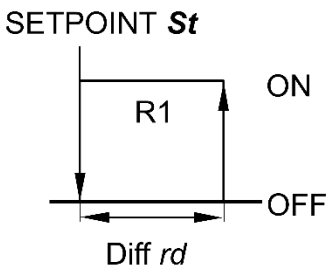
Checked by: SS Date: 03/04/2023

Part number	Description
IJWPSA4B02S0523	IJW Small 4x Relay 230Vac BT/RTC/BMS Controller
NTC015HP03	Carel NTC Temperature Probe
IREVC0HC0U	IR33+ Panel mount controller, 4 relays

Drawing: IJW Small IR33+ LT RTC defrost Rev: 1.1

Connected
NOT Connected
Normally Open contact
Normally Closed contact

ir33+	Parameters
CtL	**St** = Setpoint
	rd = Differential
dEF	**d0** = 0, Temp terminated defrost
	dI = Defrost intervals (hours)
	dt1 = Defrost termination temp (°C)
	dP1 = Max def duration (mins)
CnF	**H1** = 0 Alarm output normally energised
rtc	**td1- td8** = Defrost time bands
	d_ = day of the week (8= Mon- Fri; 10= Sat- Sun; 11= everyday)
	h_ = hour of defrost schedule
	n_ = minute of schedule
	tc = Current time and date
	y_ = current year
	N_ = current month
	d_ = day of the month
	u_ = day of the week (1 = Mon)
	h_ = current hour
	n_ = current minute



IJW SMALL	Parameters
CtL / *Temp Regulation	**St** = Setpoint
	rd = Differential
dEF / *Defrost	**d0** = 0 Temp terminated defrost
	dI = Defrost intervals (hours)
	dt1 = Defrost termination temp (°C)
	dP1 = Max def duration (mins)
FAn/ *Fan	**F2 =** 0 Fans on except in defrost
***I/O**	**DOb** = 4 Alarm output assigned to DO4**
	rOA = 1 Alarm output normally energised**
***Scheduler**	**td1-d..td8-d** = Defrost time bands** 1..7= Mon..Sun; 8= Mon- Fri; 10= Sat- Sun; 11= everyday
	td1-hh..td8-hh = hour of defrost schedule**
	td1-mm..td8-mm= minute of defrost schedule**
	Setup scheduler use app and open service area > Scheduler > Defrost
***RTC**	**rtA** = current date and time***
	setup actual time use app and open side menu: Settings > Device > Set date/ time

* = Category filter in Applica App
** = Only available in Applica App
*** = Info only

APPLICA

Available on the App Store

Google play

APPLICATION GUIDE

IJW Small / IR33+ LT with RTC defrost Wizard #421

CAREL SERVICES

Phone 02-8762 9200
Email services.au@carel.com

Drawn by: MK Date: 03/04/2023

Checked by: SS Date: 03/04/2023

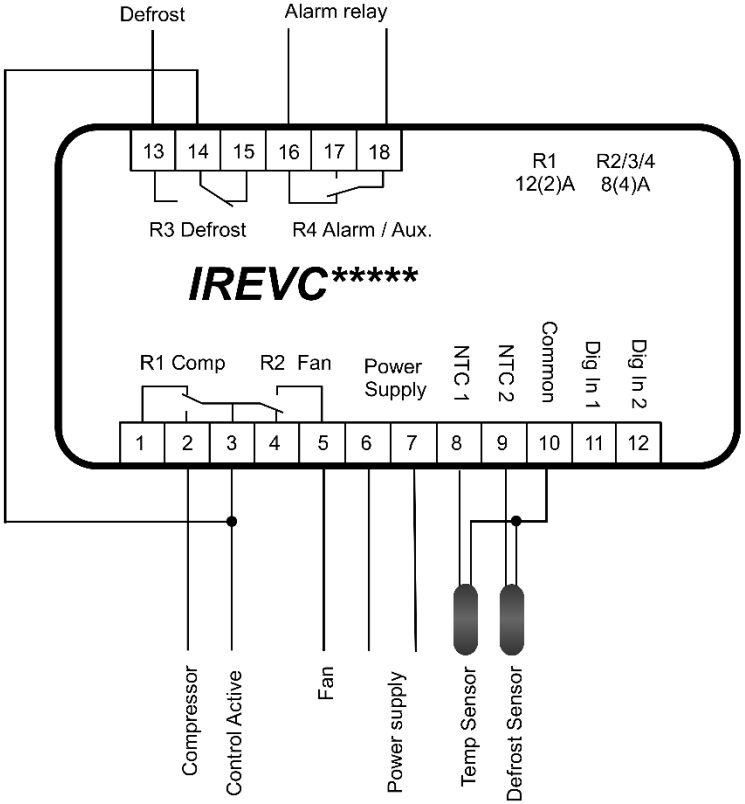
Part number	Description
IJWPSA4B02S0523	IJW Small 4x Relay 230Vac BT/RTC/BMS Controller
NTC015HP03	Carel NTC Temperature Probe
IREVC0HC0U	IR33+ Panel mount controller, 4 relays

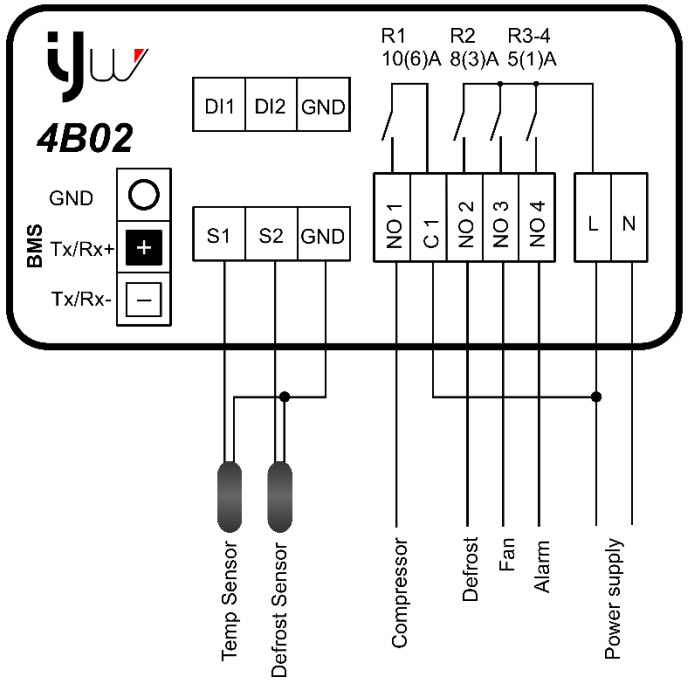
Drawing: IJW Small IR33+ LT RTC defrost Rev: 1.1

Connected
NOT Connected
Normally Open contact
Normally Closed contact

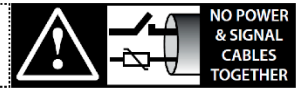
ir33+

ijw SMALL





*Please check relay rating for suitable loads.
Install external relay/contactor for heavy loads



APPLICATION GUIDE

IJW Small / IR33+ LT with Alarm: Wizard # 421

CAREL SERVICES
Phone 02-8762 9200
Email services.au@carel.com

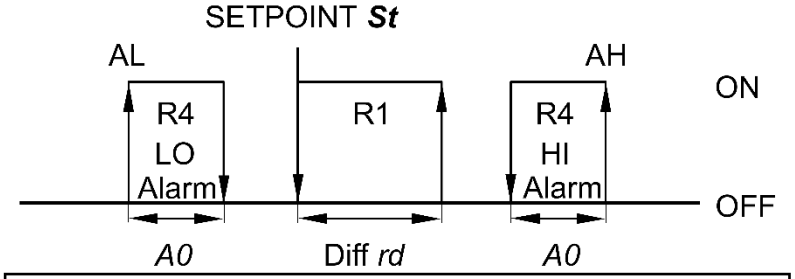
Drawn by: Pv Date: 29/03/2023

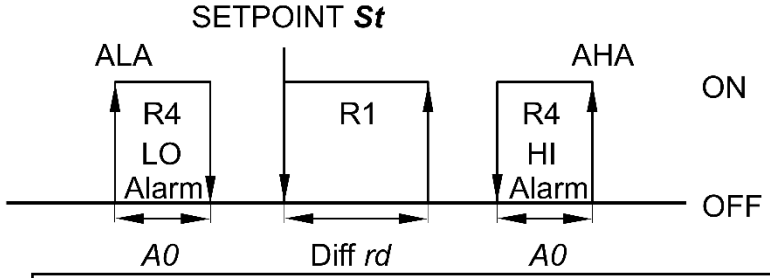
Checked by: MK Date: 29/03/2023

Part number	Description
IJWPSA4B02S0523	IJW Small 4x Relay 230Vac BT/RTC/BMS Controller
NTC015HP03	Carel NTC Temperature Probe
IREVC0HC0U	IR33+ Panel mount controller, 4 relays

Drawing: IJW Small / IR33+ LT with Alarm Rev: 1.1

Connected
NOT Connected
Normally Open contact
Normally Closed contact





ir33+ Parameters

CtL	**St** = Setpoint
	rd = Differential
dEF	**d0** = 0 Temp terminated defrost
	dI = Defrost intervals (hours)
	dt1 = Defrost termination temp (°C)
	dP1 = Max def duration (mins)
ALn	**A1** = 1 (Absolute Alarms)
	AL = Low Temp Alarm
	AH = High Temp Alarm
	Ad = Alarm delay (mins)
CnF	**H1** = 0 Alarm output normally energised

IJW SMALL Parameters

CtL/ *Temperature Regulation	**St** = Setpoint
	rd = Differential
dEF/ *Defrost	**d0** = 0 Temp terminated defrost
	dI = Defrost intervals (hours)
	dt1 = Defrost termination temp (°C)
	dP1 = Max def duration (mins)
ALn/ *Alarms	**A1** = 1 (Absolute Alarms)
	AL = Low Temp Alarm
	AH = High Temp Alarm
	Ad = Alarm delay (mins)
FAn/ *Fan	**F2 =** 0 Fans on except in defrost

* = Category filter in Applica App
** = Only available in Applica App
*** = Info only

APPLICA

Available on the App Store

Google play

APPLICATION GUIDE

IJW Small / IR33+ LT with Alarm: Wizard # 421

CAREL SERVICES
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Email services.au@carel.com

Drawn by: Pv Date: 29/03/2023

Checked by: MK Date: 29/03/2023

Part number	Description
IJWPSA4B02S0523	IJW Small 4x Relay 230Vac BT/RTC/BMS Controller
NTC015HP03	Carel NTC Temperature Probe
IREVC0HC0U	IR33+ Panel mount controller, 4 relays

Drawing: IJW Small / IR33+ LT with Alarm Rev: 1.1

Connected
NOT Connected
Normally Open contact
Normally Closed contact

Cross Reference table

IR33+		IJW	
Code	**Description**	**Code**	**Description**
IREVS0EA0U	IR33+ 8A 8A 230VAC BUZ 2NTC 1DI SCREW TERMINALS	IJWPSA2B02S0519 Short code: 2B02	iJW SMALL ADV 115...230VAC 2 RELAY 2HP 8A NFC RTC BT NTC PTC PT1K MODBUS BMS
IREVS0HN0U	IR33+ 8A 8A 230VAC BUZ 2NTC 1DI SCREW TERMINALS		
IREVC0HN0U	IR33+ 16A 8A 8A 8A 115/230VAC BUZ 2NTC 2DI SCREW TERMINALS	IJWPSA4B02S0523 Short code: 4B02	iJW SMALL 115...230VAC 4 RELAY 2HP 8A 5A 5A NFC RTC BT NTC PTC PT1K MODBUS BMS
IREVC0HC0U	IR33+ 16A 8A 8A 8A 115/230VAC BUZ 2NTC 2DI RTC SCREW TERMINALS		
IREVF0EN0U	IR33+ 8A 8A 5A 230VAC BUZ 2NTC 1DI SCREW TERMINALS		
Supervisor connection Carel protocol		IJWPSA4R02S0518 Short code: 4R02	iJW SMALL 115...230VAC 4 RELAY 2HP 8A 5A 5A NFC RTC 2NTC PTC PT1K CAREL BMS Note: NFC ONLY - NO BLUETOOTH
IR33 Retro			
IR33C0HR00	IR33 16A 8A 8A 8A 115/230VAC BUZ 2NTC 2DI IR SCREW TERMINALS	IJWPSA4B02S0523 Short code: 4B02	iJW SMALL 115...230VAC 4 RELAY 2HP 8A 5A 5A NFC RTC BT NTC PTC PT1K MODBUS BMS
PowerCompact			
PB00S0EA10	POWERCOMPACT 8A 8A (AUX) NTC 230V SCREW TERMINALS	IJWPLA6B07S0516 Short code: 6B07	iJW LARGE 115...230VAC 6 RELAY 30A 16A 8A 8A 8A 8A NFC RTC BT NTC PTC PT1K MODBUS BMS
PB00F0HA10	POWERCOMPACT 16A 8A 8A 8A NTC 115/230V MORS.FASTON CONNECTORS		
PB00H0HB10	POWERCOMPACT 2HP 16A 8A 8A 8A NTC 115/230V FASTON CONNECTORS		
PB00S0SA50	POWERCOMPACT SMALL 30A 8A (AUX) NTC 230V SCREW TERMINALS		
PB00C0SN50	POWERCOMPACT SMALL 30A 8A 5A 5A NTC 230V SCREW TERMINALS		
PB00S0SAFA	POWERCOMPACT SMALL WIDE 30A 8A (AUX) NTC 230V SCREW TERMINALS DISPLAY BLUE		
PB00C0SNFA	POWERCOMPACT SMALL WIDE 30A 8A 5A 5A 2NTC 115/230VAC 2DI SCREW TERMINALS DISPL. BLUE		

Connected Efficiency

CAREL

CAREL

APPLICA

Available on the App Store

ANDROID APP ON Google play

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