

**CAREL**

**Product Catalogue  
CAREL Australia**

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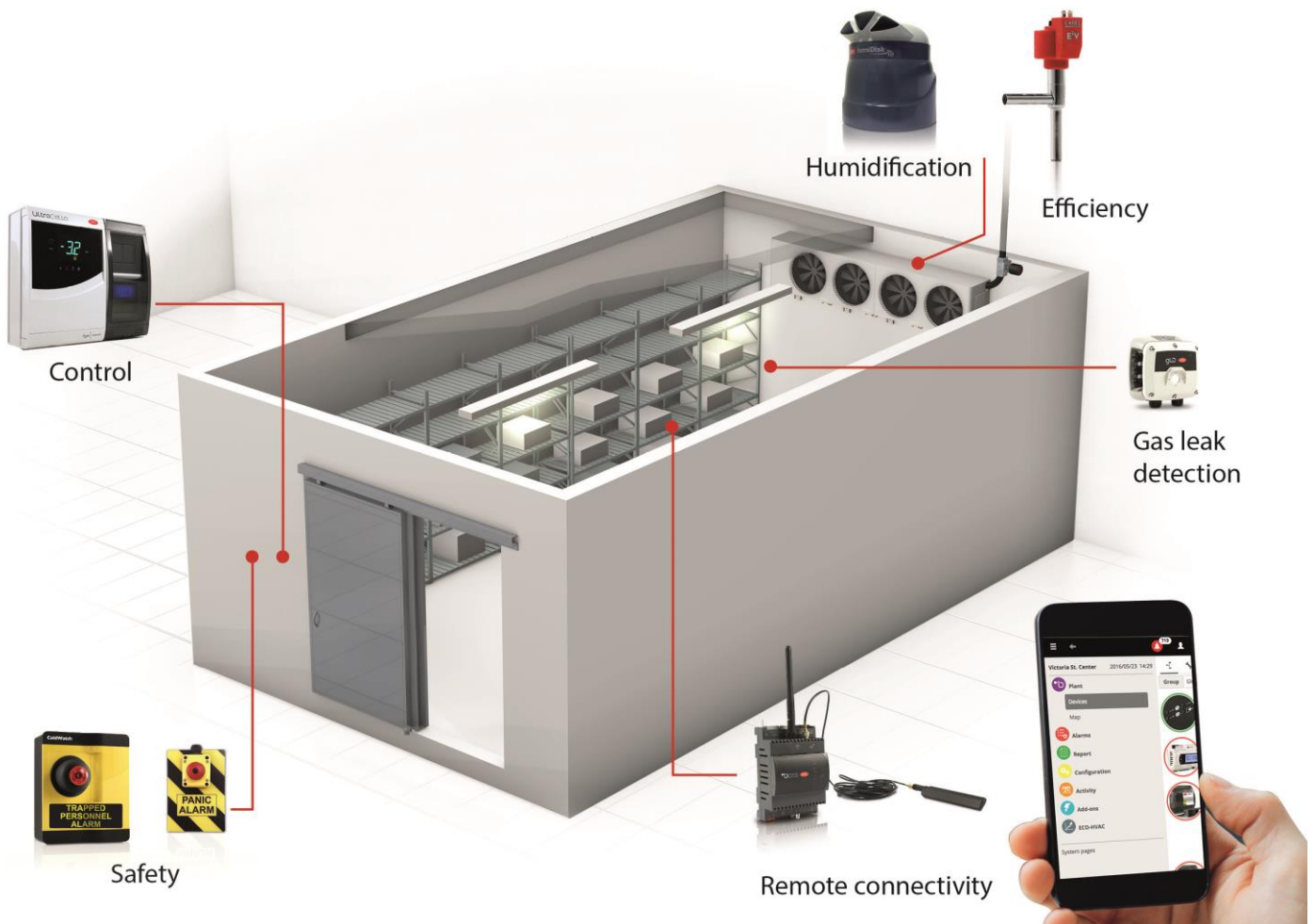
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Unless otherwise stated, remote sensors must be ordered separately.

## CAREL Cold Room Solutions



### Remote Connectivity

Part Number	Description
BMBST00DP0	BOSS micro 15x Device – WIFI & Mobile 4G
BMEST00RS0	BOSS mini 30x Device – Basic

### Control

Part Number	Description
WE00C2HN00	SmartCella low temperature controller, 230Vac, 10(10)A <b>Comp</b> , 10(4)A <b>Def</b> , 8(4)A <b>Fan</b> , 8(4)A <b>Aux</b>
MD33D5EB00	MasterCella2 low temperature controller, 230Vac, 12(10)A <b>Comp</b> , 10(4)A <b>Def</b> , 10(4)A <b>Fan</b> , 10(4)A <b>Aux1</b> , 10(4)A <b>Aux2</b> , Real Time Clock/HACCP
WB000DGOFO	Green double display, 230Vac, 12(10)A <b>Comp</b> , 12(10)A <b>Def</b> , 10(5)A <b>Fan</b> , 10(5)A <b>Light</b> , 8(4)A <b>Aux1</b> , 8(4)A <b>Aux2</b> , Real Time Clock/HACCP
NTC030HP00	Plastic IP67 Sensor 1.5m (-50 to +50°C)

Perfect temperature control of the room is done using the appropriate controller. Extra savings can be achieved using smart defrost and day/night setpoint. Other controllers and NTC probes are available. It is recommended to use a second NTC probe for better defrost management. See page 37 for more sensors options.

## Efficiency

Part Number	Description
EDVFN01008	EVD Evo Power Solutions prewired panel with Single driver and Ultracap
EVDIS00EN0	Display for EVD Evolution
WM00ENNI0K	EEV module blind kit, without Ultracap for UltraCella

Maximum efficiency can be achieved using extra devices such as our range of electronic expansion valves and drivers. Note: Electronic expansion valve is to be sized accordingly and connected to the panel. See page 22 for more information.

## Safety

Part Number	Description
CM00006236	ColdWatch control unit and emergency button

Safety is very important and the CAREL solution satisfies local regulation, thanks to our person trapped alarm kit.

## Gas Leak Detection

Part Number	Description
GDWBS04A00	R404a sensor, 0-1000ppm, 24V ac/dc, built in relay, Modbus RS485
GDWBS08A00	R448a sensor, 0-1000ppm, 24V ac/dc, built in relay, Modbus RS485
GDWBI20A00	CO2 sensor, 0-10000ppm, 24V ac/dc, built in relay, Modbus RS485

Continuous monitoring of gas leaks and alarm notification gives peace of mind in installations.

## Humidification

Part Number	Description
UC0100DK00	Centrifugal humidifier 1kg/h, 230Vac, no anti-freeze heater (+ pipes, wall mount bracket)
UC0650D100	Centrifugal humidifier 1.6 – 6.5kg/h, 230Vac, with anti-freeze heater (+ pipes, wall mount bracket)
DPPC110000	-10 to +60°C 4-20mA temperature, 10-90%rH 4-20mA humidity

Control of the humidity helps keeping a good level of moisture ensures better food quality.

Note: The use of humidifiers is limited according to the room temperature:

- humiDisk10: minimum room temperature +2°C
- humiDisk65: minimum room temperature -2°C

Please note that this is an example of suitable products for a cool room solution. Other products are available to suit more types of installations.



**ir33+**

Flat • Intuitive • Touch

12-24Vac models will be replaced by iJW. Check availability.

## ir33+ Thermometer

Part Number	Description
IREVM0LN0U	12-24V ac/dc with Buzzer (2 NTC 1DI)
IREVM0EN0U	230Vac with Buzzer (2 NTC 1DI), not compatible with remote display

## ir33+ Medium Temperature Controllers

Part Number	Description
IREVS0LN0U	12-24V ac/dc, 12(2)A Comp
IREVS0EA0U	230Vac, 8(4)A Comp, 8(4)A Aux, not compatible with remote display

ir33+ panel mount thermostats with passive defrost option and buzzer

## ir33+ Low Temperature Controllers

Part Number	Description
IREVCOLN0U	12-24V ac/dc, 12(2)A <b>Comp</b> , 8(4)A <b>Def</b> , 8(4)A <b>Fan</b> , 8(4)A <b>Aux</b>
IREVCOLC0U	12-24V ac/dc, 12(2)A <b>Comp</b> , 8(4)A <b>Def</b> , 8(4)A <b>Fan</b> , 8(4)A <b>Aux</b> , Real Time Clock/HACCP
IREVCOHN0U	230Vac, 12(2)A <b>Comp</b> , 8(4)A <b>Def</b> , 8(4)A <b>Fan</b> , 8(4)A <b>Aux</b>
IREVCOHC0U	230Vac, 12(2)A <b>Comp</b> , 8(4)A <b>Def</b> , 8(4)A <b>Fan</b> , 8(4)A <b>Aux</b> , Real Time Clock/HACCP

ir33+ panel mount thermostats with defrost control, fan control, alarm relay and buzzer

## Accessories for ir33+

Part Number	Description
IJBOX00000	Mounting box with precut hole (dimensions 127 x 127 x 127mm)
RLY2402HP	Relay 230V coil 2HP 230V switching
STRSIR0012	12Vac blue strobe with 100dB siren
BXOPZI4850000	IR33+ serial card RS485
IROPZDSP00	Remote display interface for ir33+ (use with IREVXGD000)
IREVXGD000	Remote display for ir33+ (requires IROPZDSP00 + PSTCON cable)
PSTCON01B0	Connector for remote display 1.5m
PSTCON05B0	Connector for remote display 5m
IROPZKEY00	Programming key for ir33+
IROPZKEYA0	230V Programming key for ir33+
IROPZPRG00	USB to programming key converter for use with VPM software



## DN33 Thermometer

Part Number	Description
DN33S0EN00	230Vac 10(4)A <b>Comp</b> (no IR), not compatible with remote display
DN33S0HA00	115-230Vac 10(10)A <b>Comp</b> , 8(4)A <b>Aux</b> (no IR)

DN33 DIN rail mount thermostats with passive defrost option and buzzer

## DN33 Low Temperature Controllers

Part Number	Description
DN33COLR00	12-24V ac/dc, 10(4)A <b>Comp</b> , 8(4)A <b>Def</b> , 10(4)A <b>Fan</b> , 8(4)A <b>Aux</b>
DN33COHR00	115-230Vac, 10(10)A <b>Comp</b> , 8(4)A <b>Def</b> , 10(4)A <b>Fan</b> , 8(4)A <b>Aux</b>
DN33COHB00	115-230Vac, 10(10)A <b>Comp</b> , 8(4)A <b>Def</b> , 10(4)A <b>Fan</b> , 8(4)A <b>Aux</b> , Real Time Clock/HACCP
DN33HOHB00	115-230Vac, 10(10)A <b>Comp</b> , 8(4)A <b>Def</b> , 10(4)A <b>Fan</b> , 8(4)A <b>Aux1</b> , 8(4)A <b>Aux2</b> , Real Time Clock/ HACCP

DN33 DIN rail mount thermostats with defrost control, fan control, alarm relay and buzzer

## Accessories for DN33

Part Number	Description
IRTRRES000	Infrared remote control for DN33 refrigeration
RLY2402HP	Relay 230V coil 2HP 230V switching
STRSIR0012	12Vac blue strobe with 100dB siren
IROPZSER30	DN33 serial card RS485 and/or repeater display card
IROPZKEY00	Programming key for DN33
IROPZKEYA0	230V Programming key for DN33
IROPZPRG00	USB to programming key converter for use with VPM software



## Smart Cella Medium Temperature Controller

Part Number	Description
WE00S1EN00	230Vac, 10(4)A <b>Comp</b> , not compatible with remote display

## Smart Cella Low Temperature Controller

Part Number	Description
WE00C2HN00	230Vac, 10(10)A <b>Comp</b> , 10(4)A <b>Def</b> , 8(4)A <b>Fan</b> , 8(4)A <b>Aux</b>
WE00C2HNOH	230Vac, 10(10)A <b>Comp</b> , 10(4)A <b>Def</b> , 8(4)A <b>Fan</b> , 8(4)A <b>Aux</b> Horizontal Mounting

## Accessories for Smart Cella

Part Number	Description
IROPZSER30	SmartCella serial card RS485 and/or repeater display card
IR00XGD000	Remote display for SmartCella (requires IROPZSER30 + PSTCON cable)
PSTCON01B0	Connector for remote display 1.5m
PSTCON05B0	Connector for remote display 5m
IROPZKEY00	Programming key for SmartCella





## Master Cella Medium Temperature Controller

Part Number	Description
MD33A5ER00	230Vac, 12(10)A <b>Comp</b> , 10(4)A <b>Aux1</b> , 10(4)A <b>Aux2</b>

MD33 wall mount thermostat with passive defrost option, 2 aux relays and buzzer

## Master Cella Low Temperature Controller

Part Number	Description
MD33D5EB00	230Vac, 12(10)A <b>Comp</b> , 10(4)A <b>Def</b> , 10(4)A <b>Fan</b> , 10(4)A <b>Aux1</b> , 10(4)A <b>Aux2</b> , Real Time Clock/HACCP
MD33D5EB0M	230Vac, 12(10)A <b>Comp</b> , 10(4)A <b>Def</b> , 10(4)A <b>Fan</b> , 10(4)A <b>Aux1</b> , 10(4)A <b>Aux2</b> , Real Time Clock/HACCP and Modbus protocol compatibility

MD33 wall mount thermostats with defrost control, fan control, 2 aux relays and buzzer

## Accessories for Master Cella

Part Number	Description
18C568A205	White frames (screw covers) for MD33 (set of 2: top + bottom)
IRTRRES000	Infrared remote control for MD33
STRSIR0012	12Vac blue strobe with 100dB siren
IROPZSEM30	MD33 serial card RS485 and/or repeater display card
PSTCON0300	Connector for remote display 3m
PSTCON1000	Connector for remote display 10m
IROPZKEY00	Programming key for MD33
IROPZKEYA0	230V Programming key for MD33
IROPZPRG00	USB to programming key converter for use with VPM software



## Ultra Cella Low Temp Controller

Part Number	Description
WB000DG0F0	Green double display, 230Vac, 12(10)A <b>Comp</b> , 12(10)A <b>Def</b> , 10(5)A <b>Fan</b> , 10(5)A <b>Light</b> , 8(4)A <b>Aux1</b> , 8(4)A <b>Aux2</b> , Real Time Clock/HACCP

UltraCella wall mount thermostat with defrost control, fan control, light, 2 aux relays and buzzer

## Ultra EVD Expansion Module Kits

Part Number	Description
WM00ENNI0K	EEV module blind kit, no Ultracap
WM00EUN00K	EEV module blind kit, with Ultracap

The kits contain the box with driver, SPKT0013R0 pressure transducer, SPKC002310 pressure transducer cable, NTC060HF01 strap-on temperature sensor and E2VCABS600 valve cable.

## Ultra Power Expansion Module

Part Number	Description
WM00P000NN	Power module main switch
WM00P0003N	Power module main switch and 3HP relay

## Ultra 3 Phase Full Modules for Condensing and Evaporator Units

Part Number	Description
WT00F4B0N0	3ph full module 4HP with safe switch 10/16A
WT00F7C0N0	3ph full module 7.5HP with safe switch 16/20A

## Accessories for Ultra Cella

Part Number	Description
PGDEWB0FZK	Service pGD with 3m cable S90CONN001



## ColdWatch Trapped Personnel Alarm

Part Number	Description
CM00006236	ColdWatch control unit and emergency button
KTCWPSENGL	ColdWatch push button spare kit



## Thermometer | easy compact

Part Number	Description
PJEZMNN0E0	230Vac red LED (no serial/buzzer), 1 NTC, screw connectors

## Medium Temperature Controllers | easy compact

Part Number	Description
PJEZSNP000	230Vac, 10(10)A <b>Comp</b> (no buzzer), 2 NTC, plug-in connectors
PJEZSNH0E0	230Vac, 10(10)A <b>Comp</b> (no serial/buzzer), 1 NTC, screw connectors

## easy

Part Number	Description
PJEZS002E0	12Vac, 8(4)A <b>Comp</b> , 1 NTC, screw connectors
PJEZS0H000	230Vac, 10(10)A <b>Comp</b> , 2 NTC, 1 DI, plug-in connectors
PJEZS0G000	230Vac, 10(10)A <b>Comp</b> , 8(4)A <b>Aux</b> , 2 NTC, 1 DI, plug-in connectors
PJS2X0H000	230Vac, 10(10)A <b>Comp</b> , 8(4)A <b>Light</b> , 2 NTC, 1 DI, plug-in connectors

## Low Temperature Controllers

Part Number	Description
PJEZC00000	230Vac, 8(4)A <b>Comp</b> , 8(4)A <b>Def</b> , 8(4)A <b>Fan</b> , 2 NTC, 1 DI, plug-in connectors
PJEZC0M000	230Vac, 10(10)A <b>Comp</b> , 8(4)A <b>Def</b> , 8(4)A <b>Fan</b> , 2 NTC, 1 DI, RTC, plug-in connectors

## Milk Vat Controllers

Part Number	Description
PJS1Y0P000	Milk vat controller 230Vac, 12(2)A <b>Comp</b> , 8(4)A <b>Stirrer</b>
PJS1Y0V000	Milk vat controller 230Vac, 12(2)A <b>Comp</b> , 8(4)A <b>Stirrer</b> , 8(4)A <b>Aux/Alarm</b>

## Energy Savings Controllers

Part Number	Description
PJS3C0M000	Controller with time band 230Vac, 10(10)A <b>Comp</b> , 8(4)A <b>Fan</b> , 8(4)A <b>Light</b>
PJS4C0H000	Controller with door switch input 230Vac, 10(10)A <b>Comp</b> , 8(4)A <b>Fan</b> , 8(4)A <b>Light</b> , red display

## easy Split Controllers

Part Number	Description
PJEZS8I050	230V MT 2 relay, 12(10)A <b>Comp</b> , 12(10)A <b>Aux</b> , w enclosure
PJEZC8I050	230V LT 4 relay, 12(10)A <b>Comp</b> , 12(10)A <b>Def</b> , 12(2) <b>Fan</b> , 12(10)A <b>Aux</b> , w enclosure
PEOPZC3000	PJEZ Split 3m connection cable
PEOPZC5000	PJEZ Split 5m connection cable

## Accessories for easy and easy Split

Part Number	Description
IJB0X00000	Mounting box with precut hole (dimensions 127 x 127 x 127mm)
RLY2402HP	Relay 230V coil 2HP 230V switching
STRSIR0012	12Vac blue strobe with 100dB siren
BXOPZI4850000	easy serial card RS485
IROPZKEY00	Programming key for easy
IROPZKEYA0	230V Programming key for easy
IROPZPRG00	USB to programming key converter for use with VPM software

# ايرفريج

# CAREL



APPLICA



Configuration both through  
Applica APP and display keypad



Embedded connectivity through NFC and  
Bluetooth technology



On-field time saving, exploiting controller  
configurations copy, paste, modify and  
share



Faster and simplified commissioning, with  
the new configuration WIZARD



End-user simplified interaction with  
CONTROLLA for an automatic HACCP  
management

## The refrigeration solution for smarter field commissioning



**Need technical support?**  
Scan the QR code to get access to  
all the technical documentation and  
video tutorials



#connect2save

# Cross Reference Table

IR33+		IJW		
Code	Description	Code	Description	
IREVS0EA0U	IR33+ 8A 8A 230VAC BUZ 2NTC 1DI SCREW TERMINALS	IJWPSA2B02S0519	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	Short code: <b>2B02</b>		
IREVC0HN0U	IR33+ 16A 8A 8A 8A 115/230VAC BUZ 2NTC 2DI SCREW TERMINALS	IJWPSA4B02S0523	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	Short code: <b>4B02</b>		
IREVF0EN0U	IR33+ 8A 8A 5A 230VAC BUZ 2NTC 1DI SCREW TERMINALS			
Supervisor connection Carel protocol		IJWPSA4R02S0518	iJW SMALL 115...230VAC 4 RELAY 2HP 8A 5A 5A NFC RTC 2NTC PTC PT1K CAREL BMS Note: NFC ONLY - NO BLUETOOTH	
		Short code: <b>4R02</b>		
IR33 Retro		IJW		
IR33C0HR00	IR33 16A 8A 8A 8A 115/230VAC BUZ 2NTC 2DI IR SCREW TERMINALS	IJWPSA4B02S0523	iJW SMALL 115...230VAC 4 RELAY 2HP 8A 5A 5A NFC RTC BT NTC PTC PT1K MODBUS BMS	
		Short code: <b>4B02</b>		
PowerCompact		IJW		
PB00S0EA10	POWERCOMPACT 8A 8A (AUX) NTC 230V SCREW TERMINALS	IJWPLA6B07S0516	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			Short code: <b>6B07</b>
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			



## ijW

NEW PRODUCTS

Part Number	Description
IJWPSA2B02S0519	IJW-2B02 2x Relay - MODBUS BMS/NFC/Bluetooth/Realtime Clock
IJWPSA4B02S0523	IJW-4B02 4x Relay - MODBUS BMS/NFC/Bluetooth/Realtime Clock
IJWPSA4R02S0518	IJW-4R02 4x Relay - <b>CAREL</b> BMS/NFC/Realtime Clock
IJWPLA6B07S0516	IJW-6B07 Large 6x Relay - MODBUS BMS/NFC/Bluetooth/Realtime Clock

## ijW Accessories

NEW PRODUCTS

Part Number	Description
IJBOX00000	Mounting box with precut hole (dimensions 127 x 127 x 127mm)

# WIZARD

**APPLICA**  
For service

**CONTROLLA**  
For end users

**CONFIGURATION COMPLETED**

**4.0 ready**

- ✓ Let the Wizard guide you through the most suitable configuration. Then integrate and optimise it based on your experience.
- ✓ Save your favourite configurations, share them via email or IM and import them onto other iJW controllers.
- ✓ Test correct unit operation through analysis of the variables in real time and testing the connected loads.
- ✓ View the temperature and controller status, access simple routine commands without any risk of inadvertently changing the operating parameters.
- ✓ Graphically displays the temperature/humidity logs and downloads the HACCP records.

iJW is suitable to be included in a 4.0 system thanks to the BMS port (RS485) for connection to a supervisory system. If the TTL port is available, the TTL/RS485 converter (BXOPZI4850000) or similar device can be used.

Available for operating systems: Android & IOS





# EEV sizing platform

Apply on [cpq.carel.com](http://cpq.carel.com) and get to know our latest valves selection tool.

New features include:

- Extended range of refrigerants
- Comparison of the same valve in multiple working points
- The whole product code, with info on product features
- Configurations and projects saved for future reference



Visit [cpq.carel.com](http://cpq.carel.com)

# Electronic Expansion Valves and Drivers



## EVD Evolution and EVD Evolution Twin Drivers

Part Number	Description
EVD0000E00	Driver for electronic expansion valve (tLAN) - universal valve types
EVD0000E10	Driver for electronic expansion valve (pLAN) - universal valve types
EVD0000E20	Driver for electronic expansion valve (RS485) - universal valve types
EVD0000E30	Driver for electronic expansion valve (tLAN) - CAREL valve types
EVD0000E40	Driver for electronic expansion valve (pLAN) - CAREL valve types
EVD0000E50	Driver for electronic expansion valve (RS485) - CAREL valve types
EVD0000T40	Twin driver for electronic expansion valve (pLAN) - CAREL valve types
EVD0000T50	Twin driver for electronic expansion valve (RS485) - CAREL valve types
EVDIS00EN0	Display for EVD Evolution

## EVD Evolution Kits

Part Number	Description
EVD00N3E2K	EVO driver kit - Universal valves including CAREL (EVD0000E20)
EVD00N3E5K	EVO driver kit - CAREL valves only (EVD0000E50)

The kits include a driver, ratiometric pressure transducer and cable, valve cable and temperature sensor. The display, valve and transformer are to be purchased separately.

## EVD Evolution Power Solutions Panel – for CAREL Valves Only

Part Number	Description
EDVFN01007	EVD Evo Power Solutions pre wired panel with Single driver and no Ultracap
EDVFN01008	EVD Evo Power Solutions pre wired panel with Single driver and Ultracap
EDVFN02008	EVD Evo Power Solutions pre wired panel with Twin driver and Ultracap

The kits include a driver, ratiometric pressure transducer and cable, valve cable and temperature sensor. The display and valve are to be purchased separately. The transformer is included and prewired.

## Accessories for EVD Evolution

Part Number	Description
EVD0000UCO	EVD Evo Ultracap module
EVDNCNV00E0	Converter tLAN - USB for EVD Evolution
-RFPCNFVFD	Preconfiguration of EVD prior to dispatch from CAREL

Note: EVD Drivers (not sold as a kit or a prewired panel) require also a pressure transducer, a pressure transducer cable, a valve cable, a transformer, a display, a valve and a strap-on NTC sensor (see Sensors).

# Electronic Expansion Valves and Drivers



## E2V-Z Valve Kits (Cartridge, Valve Body, Stator)

Part Number	Description
E2V03ZWF13	E2V-Z Valve Kit, Size 03, 1/2" connections
E2V05ZWF13	E2V-Z Valve Kit, Size 09, 1/2" connections
E2V09ZWF13	E2V-Z Valve Kit, Size 11, 1/2" connections
E2V11ZWF13	E2V-Z Valve Kit, Size 14, 1/2" connections
E2V18ZWF13	E2V-Z Valve Kit, Size 18, 1/2" connections
E2V24ZWF13	E2V-Z Valve Kit, Size 24, 1/2" connections
E2V30ZWF13	E2V-Z Valve Kit, Size 30, 1/2" connections
E2V35ZWF13	E2V-Z Valve Kit, Size 35, 1/2" connections

## E2V-Z Valve Parts

Part Number	Description
E2BR00SM10	E2V-Z 5/8" – brass body
E2BR00WF10	E2V-Z 1/2" – brass body
E2VATT03Z0	E2V-Z Size 03 Cartridge
E2VATT05Z0	E2V-Z Size 05 Cartridge
E2VATT09Z0	E2V-Z Size 09 Cartridge
E2VATT11Z0	E2V-Z Size 11 Cartridge
E2VATT14Z0	E2V-Z Size 14 Cartridge
E2VATT18Z0	E2V-Z Size 18 Cartridge
E2VATT24Z0	E2V-Z Size 24 Cartridge
E2VATT30Z0	E2V-Z Size 30 Cartridge
E2VATT35Z0	E2V-Z Size 35 Cartridge

\*Motor stator / Cable match

## E3V Smart – Bipolar Valves

Part Number	Description
E3V45SWR10	EEV Smart with 3/4"-7/8" copper connections, no sight glass (size 45)
E3V55SWR10	EEV Smart with 3/4"-7/8" copper connections, no sight glass (size 55)
E3V65SWS10	EEV Smart with 7/8"-1"1/8" copper connections, no sight glass (size 65)

Note: The part numbers have changed and are replacing the E3V\*\*AS\*00 models. These valves have imperial connections rather than metric.

# Electronic Expansion Valves and Drivers

## E3V Smart – Bipolar Hot Gas Injection Valves

Part Number	Description
E3V45HWR10	EEV Smart hot gas with 3/4"-7/8" copper connections, no sight glass (size 45)
E3V55HWR10	EEV Smart hot gas with 3/4"-7/8" copper connections, no sight glass (size 55)
E3V65HWS10	EEV Smart hot gas with 7/8"-1"1/8 copper connections, no sight glass (size 65)

## E4V

Part Number	Description
E4V85BWT00	EEV with 1"1/8-1"3/8 copper connections, with sight glass (size 85)
E4V95BWT00	EEV with 1"1/8-1"3/8 copper connections, with sight glass (size 95)

Note: The part numbers have changed and are replacing the E3V\*\*AS\*00 models. These valves have imperial connections rather than metric.

## E4V Smart – Bipolar Hot Gas Injection Valves

Part Number	Description
E4V85HWT00	EEV hot gas with 1"1/8-1"3/8 copper connections, with sight glass (size 85)
E4V95HWT00	EEV hot gas with 1"1/8-1"3/8 copper connections, with sight glass (size 95)

## E5V | E6V | E7V

Part Number	Description
E5VA2AST00	EEV with 35mm copper connections (size 120)
E5VA5AST00	EEV with 35mm copper connections (size 150)
E6VB2ASV00	EEV with 42mm copper connections (size 200)
E7VC1ASZ00	EEV with 54mm copper connections (size 310)

Please note that valves for CO2 application are available. Contact your local CAREL representative for further information.

## E2V-Z Spare Parts

Part Number	Description
E2VSTA0200	E2V spare coil
E3VSTA0000	E3V type "A" valve spare coil
E3VSTA0201	E3V Smart spare coil
E4VSTA0000	E4V spare coil
E5VSTA0000	E5V spare coil
E6VSTA0000	E6V spare coil
E7VSTA0000	E7V spare coil
E3VORI0100	"O" Ring kit for E3V
E5VORI0100	"O" Ring kit for E5V
E6VORI0100	"O" Ring kit for E4V and E6V
E7VORI0100	"O" Ring kit for E7V
E4VSGH0000	Sight glass for E4V to E7V
E2VFIL0100	E2V filters/strainers 12mm (10pcs)
E2VFIL0200	E2V filters/strainers 16mm (10pcs)
E2VFIL0300	E2V filters/strainers 3/8" (10pcs)
E2VNUT0200	E2V nuts (20pcs)
EEVMAG0000	Magnetic coil set of 3 for manual driving of stepper EEV
E2VMAG0000	E2V Size magnetic coil set for manual driving of stepper EEV
E2VFIL0400	Filter/strainer for E2V-Z (10pk)
E2VORI0100	Teflon seal/o-rings for E2V-Z (10pk)
E2VCABS600	Electrical connector for E2V/E4V with 6m cable shielded IP67 (Direct to Free)
E2VCABS610	Electrical connector for E2V/E4V with 6m cable shielded IP67 (Superseal to Free)



## MPXPRO Step 3 Case Controller

Part Number	Description
MX30M21H00	Master 5 relays, no EEV, 230V, 6(4)A <b>Comp</b> , 10(2)A <b>Def</b> , 6(4)A <b>Fan</b> , 10(10)A <b>Light</b> , 6(4)A <b>Alarm</b>
MX30M24H00	Master 5 relays, PWM Driver for pulse EEV, 230V, 6(4)A <b>Comp</b> , 10(2)A <b>Def</b> , 6(4)A <b>Fan</b> , 10(10)A <b>Light</b> , 6(4)A <b>Alarm</b>
MX30M25H00	Master, EEV Driver + Ultracap + built-in switching power supply, 230V, 6(4)A <b>Comp</b> , 10(2)A <b>Def</b> , 6(4)A <b>Fan</b> , 10(10)A <b>Light</b> , 6(4)A <b>Alarm</b>

## Accessories for MPXPRO Step 3

Part Number	Description
IR00UGC300	Remote terminal (green LED, keypad, buzzer, IR, commissioning port)
IR00XGC300	Display (green LEDs, buzzer, commissioning port, IR)
MX3OP48500	MPXPRO Step 3 RS485 / RTC option card - Available as spare part
MX30PSTH022	MPXPRO Expansion board, STEPPER EEV MODULE + 0..10VDC
MXOPZKEYA0	Programming key for MPXPRO
IROPZPRG00	USB to programming key converter for use with VPM software
CVSTDUMORO	USB - RS485 Converter to interface an RS485 network to a PC using the USB port
IROPZTLN00	Commissioning interface (USB -tLAN)
IRTRMPX000	Remote control for MPXPRO
MTOPZS1000	10A Solid State Relay DIN rail mount
-00PCNFMX3	Preconfiguration of MPXPRO prior to dispatch from CAREL
MX3OPSWC00	Power supply board



## uRack Rack Controller

NEW PRODUCTS

Part Number	Description
U20R00MRK0380	Micro Rack, 24V, Panel Mount, NFC + Bluetooth
U20R00MRK0390	Micro Rack, 24V, DIN Mount, Built-in Display, NFC + Bluetooth
U20R00MRK0300	Micro Rack, 24V, DIN Mount, NO Display, SSR

(Above models come with preloaded software and RS485 serial interface)

## uRack Rack Accessories

Part Number	Description
AX2000PD20030	Display for Micro Rack, NFC + Bluetooth ( <i>U20R00MRK0300 model only</i> )
ACS00CB000020	1.5meter Connector Cabel for Display, JST/JST
UCHCONP010	1meter Connector kit with cables for PANEL, MOLEX/FREE
UCHCOND010	1meter Connector kit with cables for DIN, MOLEX/FREE
UCHCONP000	Connector kit for PANEL mount
UCHCOND000	Connector kit for DIN mount



## pRack 100 Rack Controller

Part Number	Description
PRK100X3G0	PR300C COMPACT, USB, RTC, RS485, DISPLAY BUILT-IN, 2 SSR

(Above models come with preloaded software, RS485 serial interface and connectors kit)

## pRack 300 Rack Controller

Part Number	Description
PRK300S3E0	pRack 300 small, DIN rail mount, internal display, 2x SSR outputs
PRK300S3F0	pRack 300 small, DIN rail mount, internal display
PRK300S3FK	pRack 300 small, DIN rail mount, external display pGD1 + cable
PRK300D3FK	pRack 300 medium, DIN rail mount, external display pGD1 + cable, EEV twin driver built-in
PRK300L3F0	pRack 300 large, DIN rail mount, internal display
PRK300L3FK	pRack 300 large, DIN rail mount, external display pGD1 + cable
PRK300L3E0	pRack 300 Large, DIN rail mount, internal display, 6x SSR outputs

(Above models come with preloaded software, RS485 serial interface and connectors kit)

## pRack Rack Controller for CO2 Transcritical Applications

Part Number	Description
PRK30TL3FK	pRack large CO2 transcritical, DIN rail mount, external PGD1 display + cable
P+ERK00000000	pRK300T Expansion Board

(Above models come with preloaded software, RS485 serial interface and connectors kit)

## Preconfiguration for pRack

Part Number	Description
RTPCNFPRK	Preconfiguration of rack controller + drawings prior to dispatch from CAREL (Still requires contractor to commission set points etc)

## Display for pRack

Part Number	Description
PGDERK0FX0	pRack Remote PGDE Display
S90CONN002	Display Connector Cable 0.8m
S90CONN000	Display Connector Cable 1.5m
S90CONN001	Display Connector Cable 3.0m

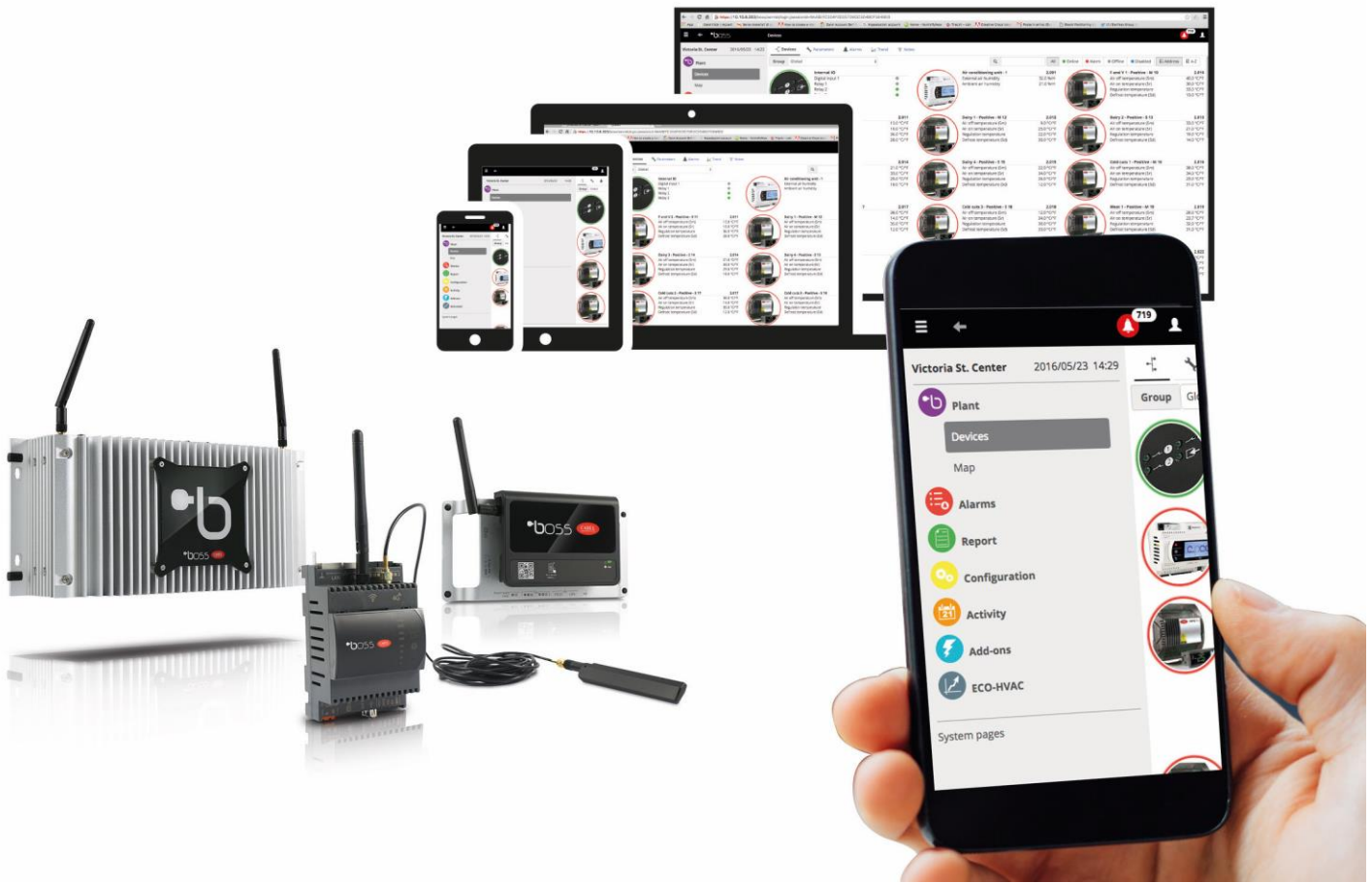
Note: 2 x 230/24V transformers are required. VA rating depends on how many PCO are connected. These cannot power other devices.



## Power Meters and Accessories

Part Number	Description
MT100D2100	1 Phase power meter
MT300W1100	3 Phase power meter (Require terminal display)
MTOPZD0000	User terminal for 3 phase power meter
MTOPZT1000	100A Current Transformer
MTOPZT2000	200A Current Transformer
MTOPZS1000	10A Solid State Relay DIN rail mount

Note: rTM SE devices can be connected to pLoads and pChrono, see rTM SE product page for more information.



## Cloudgate (10 Devices)

NEW PRODUCTS

Part Number	Description
GTW000TWB0	Cloudgate Advanced – Ethernet – 2 ETH – 2 RS485
GTW000TFA0	Cloudgate Advanced – Wi-Fi – 1 ETH – 2 RS485
GTW000T4A0	Cloudgate Advanced – 4G – 1 ETH – 2 RS485
BMBSTEWAA00	BOSS/Cloudgate extension for Wi-Fi antenna – 3 meters
BMBSTEGA00	BOSS/Cloudgate extension for 4G antenna – 3 meters
BMEPS000AU	Power Supply 24VDC 1.5 Amps

## BOSS micro (15 Devices)

NEW PRODUCTS

Part Number	Description
BMBST00FP0	BOSS micro 15x Device – WIFI
BMBST00DP0	BOSS micro 15x Device – WIFI & Mobile 4G
BMEPS000AU	Power Supply 24VDC 1.5 Amps
BMESTRLA00	BOSS micro relay expansion 3x relays

If Drawings and Commissioning are required, please request a quote.

Communication (RS485) cable Please request a copy of the Carel RS485 serial lines & easy supervisory commissioning guide. We recommend using Belden 8761 or 8762 depending on the length required.



**BOSS mini Basic (30 Devices)**

Part Number	Description
BMEST00RS0	BOSS mini 30x Device – Basic
BMEPS000AU	Power Supply 24VDC 1.5 Amps
BMEST03P00	Credit for 3x BOSS mini plugin
BMEST01P00	Credit for 1x BOSS mini plugin
BMESTRLA00	BOSS mini relay expansion 3x relays
BMETCH00MK	BOSS Mini USB / HDMI Adaptor Kit

**BOSS mini Advance (50 Devices)**

Part Number	Description
BMEST00LE0	BOSS mini 50x Device – (WIFI, HDMI Port)
BMEPS000AU	Power Supply 24VDC 1.5 Amps
BMEST03P00	Credit for 3x BOSS mini plugin
BMEST01P00	Credit for 1x BOSS mini plugin
BMESTRLA00	BOSS mini relay expansion 3x relays
BMETCH00MK	BOSS Mini USB / HDMI Adaptor Kit

**BOSS (100 Devices)**

Part Number	Description
BMHST03XS0	BOSS 100x Device – 3 Plug-ins credits

**BOSS (300 Devices)**

Part Number	Description
BMHST03XE0	BOSS 300x Device – 3 Plug-ins credits

**Boss/Boss mini WiFi Gateways**

Part Number	Description
GTW0000WT0	Gateway Serial to WiFi 24VDC
BMEPS000AU	Power Supply 24VDC 1.5 Amps

**Supervisory RS485 Hardware and Converters**

Part Number	Description
CVSTD00000	PC Gate serial converter (RS232-RS485) no key function
CVSTDUMOR0	USB-RS485 serial converter - 3 pin connector for supervisory
CVSTDUTLF0	USB-RS485 serial converter - RJ connector for PCO programming
TCONN60000	"T" connector for IRDR line
S90CONN002	Auxiliary board connector 0.8m cable (use with TCONN...)
BMHSTCVA00	USB-RS485 Converter Opto-Insulated

# Supervisory

## Supervisory Miscellaneous Hardware

Part Number	Description
P+E1M0000000	I/O module for RS485 line (does not require a serial card) 24V
P+DOCON0B0	I/O module connector kit
-RFPCNFIOM	Preconfiguration of I/O module prior to dispatch from CAREL
BMHST4GA00	Supervisory Miscellaneous Hardware:4G Modem

## Parametric Controllers Serial Cards

Part Number	Description
FCSER00000	MasterCella Split, powersplit, microChiller2 (DIN) and FCS serial card RS485
BXOPZI4850000	ir33+, ir33, powercompact and easy serial card RS485
IROPZSEM30	MD33 serial card RS485 and/or repeater display card
IROPZSER30	DN33 on board serial card RS485 and/or repeater display card
MCH2004850	microChiller2 SE panel mount serial card RS485
MCHSER4850	microChiller serial card RS485
MTCSER0000	MasterCella Compact serial card RS485 ( __100 ver)
MX3OP48500	MPXPRO Step 3 RS485 / RTC serial card

## Programmable Controllers Serial Cards

Part Number	Description
PCOS004850	pCOXS, pCO1 & pCO3 serial card RS485
PCO10000F0	pCOXS, pCO1 & pCO3 LON FTT10 serial interface
PCO100WD0	Pcweb se Ethernet card IP protocols
PCO1000BD0	PCO NET SE, RS485 CARD FOR BACN

## Programmable Controllers Field Bus Serial Cards

Part Number	Description
PCO100FD10	FieldBus serial card
PCO100TLN0	tLAN serial card

## RED Optimise – Connect Service

Part Number	Description
9SPPC00Y10	RED Preset 1year Bundle
9SEIT01H1A	iOT Configuration
9SPICS1Q10	Sim Card
9SPICD1Y12	SIM 1year Data Plan, No SMS
9SPICD2Y12	SIM 1year Data Plan, SMS Included

# Humidity matters!

CAREL solutions for all humidification needs



Our wide range of advanced and competitive products has positioned CAREL as a world leader in the manufacture of humidifiers.

CAREL systems for humidity control include adiabatic and steam humidifiers to provide the best answer to your specific needs: energy savings, hygienic safety and precise humidity control.

**Connected** Efficiency

# Universal and Air Conditioning Parametric Controllers



## The uChiller family is available in three versions: STANDARD, ENHANCED and HIGH EFFICIENCY

The following table shows the recommended choice, depending on the application.

Chiller / HP	Model
Up to 2 circuits, up to 4 on/off compressors, no EEV	Standard Panel / Din
Up to 2 circuits, up to 4 on/off compressors, EEV with cooling capacity <90kW per circuit	ENHANCED
Up to 2 circuits, up to 4 on/off compressors, EEV with cooling capacity >90kW per circuit	STANDARD Panel / Din + EVD EVO
1 circuit, up to 2 compressors (1 BLDC + 1 on/off), EEV with cooling capacity <90 kW circuit	HIGH EFFICIENCY
1 circuit, up to 2 compressors (1 BLDC + 1 on/off), EEV with cooling capacity >90 kW circuit	HIGH EFFICIENCY + EVD EVO
Replacement of uChiller2 SE with the new uChiller	STANDARD Panel / Din

### uChiller2 SE

Part Number	Description
MCH2001030	Replaced by UCHP000X0200 (contact CAREL for compatibility considerations)

### uChiller Panel Mount

**NEW PRODUCTS**

Part Number	Description
UCHBP00000200	uChiller panel, NFC and BTE
UCHBP000X0200	uChiller Panel, NFC and BTE MCH2 compatible
UCHBP00000200	uChiller panel, NFC and BTE

### uChiller DIN Mount

**NEW PRODUCTS**

Part Number	Description
UCHBDH0001150	uChiller High Efficiency DIN mount
UCHBD000X1230	uChiller DIN , MCH2 compatible
AX5000PD20A30	Display for uChiller, NFC and BTE

### uChiller Expansion Module

**NEW PRODUCTS**

Part Number	Description
UCHBE00001230	uChiller IO exp for second circuit

# Universal and Air Conditioning Parametric Controllers

## uChiller Accessories

NEW PRODUCTS

Part Number	Description
UCHCONP000	uChiller conn kit panel Molex fee
UCHCOND000	uChiller conn kit DIN Molex fee
UCHCONP010	uChiller 1mtr cable conn kit (panel )
ACS00CB000020	Cable for display AX JST/JST 1.5mtrs
UCHCONP010	1meter Connector kit with cables for PANEL, MOLEX/FREE
UCHCOND010	1meter Connector kit with cables for DIN, MOLEX/FREE
UCHCONP000	Connector kit for PANEL mount
UCHCOND000	Connector kit for DIN mount

## Fan Speed Control Cards

Part Number	Description
MCHRTF04C0	Fan speed control card (spade terminals) 4A
MCHRTF08C0	Fan speed control card (spade terminals) 8A
MCHRTF12C0	Fan speed control card (spade terminals) 12A

# Universal and Air Conditioning Parametric Controllers



## ir33 Panel Mount Single Output Controller

Part Number	Description
IR33V7HR20	Temperature controller 115-230Vac, 2 temperature inputs (a), buzzer, IR
IR33V7HB20	Temperature controller 115-230Vac, 2 temperature inputs (a), buzzer, IR, RTC
IR33V7LR20	Temperature controller 12-24Vac 12-30Vdc, 2 temperature inputs (a), buzzer, IR

## DN33 DIN Rail Mount Single Output Controller

Part Number	Description
DN33V7HR20	Temperature controller 115-230Vac, 2 temperature inputs (a), buzzer, IR
DN33V7LR20	Temperature controller 12-24Vac 12-30Vdc, 2 temperature inputs (a), buzzer, IR

## ir33 Panel Mount Two Output Controller

Part Number	Description
IR33W7HR20	Temperature controller 115-230Vac, 2 temperature inputs (a), buzzer, IR
IR33W7LR20	Temperature controller 12-24Vac 12-30Vdc, 2 temperature inputs (a), buzzer, IR

## DN33 DIN Rail Mount Two Output Controller

Part Number	Description
DN33W7HR20	Temperature controller 115-230Vac, 2 temperature inputs (a), buzzer, IR
DN33W7LR20	Temperature controller 12-24Vac 12-30Vdc, 2 temperature inputs (a), buzzer, IR

## ir33 Panel Mount Four Output Controller

Part Number	Description
IR33Z7HR20	Temperature controller 115-230Vac, 2 temperature inputs (a), buzzer, IR
IR33Z7HB20	Temperature controller 115-230Vac, 2 temperature inputs (a), buzzer, IR, RTC
IR33Z7LR20	Temperature controller 12-24Vac 12-30Vdc, 2 temperature inputs (a), buzzer, IR

# Universal and Air Conditioning Parametric Controllers

## DN33 DIN Rail Mount Four Output Controller

Part Number	Description
DN33Z7HR20	Temperature controller 115-230Vac, 2 temperature inputs (a), buzzer, IR
DN33Z7HB20	Temperature controller 115-230Vac, 2 temperature inputs (a), buzzer, IR, RTC
DN33Z7LR20	Temperature controller 12-24Vac 12-30Vdc, 2 temperature inputs (a), buzzer, IR

## ir33 Panel Mount Four SSR Output Controller

Part Number	Description
IR33A7LR20	Temperature controller 12-24Vac 12-30Vdc, 2 temperature inputs (a), buzzer, IR

Note: IR33D7LR20 has been phased out

## DN33 DIN Rail Mount Four SSR Output Controller

Part Number	Description
DN33A7LR20	Temperature controller 12-24Vac 12-30Vdc, 2 temperature inputs (a), buzzer, IR

## ir33 Panel Mount Two Relay Outputs + Two Analogue 0-10v Outputs Controller

Part Number	Description
IR33E7HB20	Temperature controller 115-230Vac, 2 temperature inputs (a), buzzer, IR, RTC
IR33E7LR20	Temperature controller 12-24Vac 12-30Vdc, 2 temperature inputs (a), buzzer, IR

## DN33 DIN Rail Mount Two Relay Outputs + Two Analogue 0-10v Outputs Controller

Part Number	Description
DN33E7HR20	Temperature controller 115-230Vac, 2 temperature inputs (a), buzzer, IR
DN33E7HB20	Temperature controller 115-230Vac, 2 temperature inputs (a), buzzer, IR, RTC
DN33E7LR20	Temperature controller 12-24Vac 12-30Vdc, 2 temperature inputs (a), buzzer, IR

## Accessories for ir33(7) and ir33(9) Universal

Part Number	Description
IRTRUES000	Infrared remote control for ir33 universal
IJBOX00000	Mounting box with precut hole (dimensions 127 x 127 x 127mm)
BXOPZI4850000	ir33 universal serial card RS485
IROPZSER30	DN33 universal on board serial card RS485
IROPZKEY00	Programming key for ir33 and DN33 universal
IROPZKEYA0	230V Programming key for ir33 and DN33 universal
CONVO/10A0	PWM to 0-10V or 4-20mA output converter







## NTC Sensors | Plastic, IP67

Part Number	Description
NTC008HP00	-50 to +50°C (fluid)/-50 to +105°C (air) sensor, 0.8m cable
NTC015HP00	-50 to +50°C (fluid)/-50 to +105°C (air) sensor, 1.5m cable
NTC015HP03	-50 to +50°C (fluid)/-50 to +105°C (air) sensor, 1.5m cable - packed for distribution
NTC030HP00	-50 to +50°C (fluid)/-50 to +105°C (air) sensor, 3.0m cable
NTC030HP03	-50 to +50°C (fluid)/-50 to +105°C (air) sensor, 3.0m cable - packed for distribution
NTC060HP00	-50 to +50°C (fluid)/-50 to +105°C (air) sensor, 6.0m cable
NTC060HP03	-50 to +50°C (fluid)/-50 to +105°C (air) sensor, 6.0m cable - packed for distribution

## NTC Sensors | Plastic Strap-on, IP67

Part Number	Description
NTC030HF01	-50 to +105°C sensor, 3.0m cable, "strap-on"
NTC030HF03	-50 to +105°C sensor, 3.0m cable, "strap-on" - packed for distribution
NTC060HF01	-50 to +105°C sensor, 6.0m cable, "strap-on"

## NTC Sensors | Metal Sensor Contact Surface Strap-on, IP67

Part Number	Description
NTC030WS01	-40 to +105°C sensor, 3.0m cable, "strap-on"
NTC060WS01	-40 to +105°C sensor, 6.0m cable, "strap-on"

# Temperature Sensors

## NTC Sensors | Stainless Steel, IP68

Part Number	Description
NTC015WH01	-50 to +105°C sensor, 1.5m cable
NTC015WH03	-50 to +105°C sensor, 1.5m cable - packed for distribution
NTC030WH01	-50 to +105°C sensor, 3.0m cable
NTC030WH03	-50 to +105°C sensor, 3.0m cable - packed for distribution
NTC060WH01	-50 to +105°C sensor, 6.0m cable
NTC060WH03	-50 to +105°C sensor, 6.0m cable - packed for distribution
NTC120WH01	-50 to +105°C sensor, 12.0m cable

## NTC Sensors | Plastic, High Temperature, IP55

Part Number	Description
NTC015HT00	0 to +150°C sensor, 1.5m cable - check controller suitability
NTC030HT00	0 to +150°C sensor, 3.0m cable - check controller suitability
NTC060HT00	0 to +150°C sensor, 6.0m cable - check controller suitability

## NTC Sensors | Stainless Steel, High Temperature, IP55

Part Number	Description
NTC015HT41	0 to +150°C sensor, 1.5m cable - check controller suitability
NTC030HT41	0 to +150°C sensor, 3.0m cable - check controller suitability
NTC060HT41	0 to +150°C sensor, 6.0m cable - check controller suitability

## NTC sensors - Stainless steel fast acting for EEV, IP67

Part Number	Description
NTC015WF00	-50 to +105°C sensor, 1.5m cable
NTC030WF00	-50 to +105°C sensor, 3.0m cable
NTC060WF00	-50 to +105°C sensor, 6.0m cable

## NTC sensor - Aluminum to mount on glass door for ACC controller, IP67

Part Number	Description
NTC060WG00	-50 to +105°C sensor, 6m cable

## NTC sensors - Stainless steel insertion sensors, IP67

Part Number	Description
NTCINF0600	-50 to +90°C sensor, 150mm, 6.0m cable
NTCINF0610	-50 to +90°C sensor, 150mm, 6.0m cable, with handle
NTCINF0340	-50 to +90°C sensor, 150mm, 6.0m cable, with handle & heater

## NTC sensor - Product simulation sensor, IP67

Part Number	Description
NTC060PS00	-50 to +105°C (air) sensor, compatible for food contact, 6.0m cable

## Pockets for NTC temperature sensors

Part Number	Description
1413306AXX	Brass, 8x60mm, 1/4 gasket, conditions max: 35bar / -20 to +95°C
NTCSOBS003	Brass, 8x60mm, 1/4 gasket, conditions max: 35bar / -20 to +95°C - packed for distribution
1413309AXX	Stainless steel, 8x60mm, 1/4 gasket, conditions max: 40bar / -20 to +95°C
NTCSOSS003	Stainless steel, 8x60mm, 1/4 gasket, conditions max: 40bar / -20 to +95°C - packed for distribution

Kit available complete with socket and IP68 cable gland

## Wall mount NTC sensor - IP30 sensor, IP30 case

Part Number	Description
DPWT011000	-10 to +60°C sensor

## Wall mount NTC sensor - For outdoors, IP65

Part Number	Description
DPUT011000	-50 to +90°C sensor

## Duct mount NTC sensor - IP40 sensor, IP55 case

Part Number	Description
DPDT011000	-20 to +70°C sensor

## Thermocouple sensors - IP67

Part Number	Description
TCK0000001	0 to +800°C type K sensor, 3.0m cable
TCJ0000001	0 to +550°C type J sensor, 3.0m cable

## Pt100 sensors - IP67

Part Number	Description
PT100000A1	-70 to +250°C sensor, 3.0m cable
PT100000A2	0 to +600°C sensor, 3.0m cable

## Active temperature sensors

Part Number	Description
DPWT010000	-10 to +60°C wall mount sensor, 0-1V or 4-20mA, IP30
ASIT030000	-30 to +90°C immersion sensor, 0-1V or 4-20mA, IP67 sensor, IP55 case
ASET030000	-30 to +90°C sensor with external probe on 2.0m cable, 0-1V or 4-20mA, IP67 sensor, IP55 case

# Temperature and Humidity Sensors



## Wall mount temperature and humidity sensors - IP30 sensor, IP30 case

Part Number	Description
DPWC110000	-10 to +60°C 4-20mA temperature, 10-90%rH 4-20mA humidity
DPWC111000	-10 to +60°C NTC temperature, 10-90%rH 4-20mA humidity
DPWC112000	-10 to +60°C 0-10V temperature, 10-90%rH 0-10V humidity
DPWC114000	-10 to +60°C temperature, 10-90%rH humidity, through serial RS485 CAREL
DPWC115000	-10 to +60°C NTC temperature, 10-90%rH 0-10V humidity, for ACC controller
DPWC110000	-10 to +60°C 4-20mA temperature, 10-90%rH 4-20mA humidity

## Wall mount temperature and humidity sensors – For Outdoors, IP65

Part Number	Description
DPUC110000	-35 to +80°C 4-20mA temperature, 10-90%rH 4-20mA humidity

## Industrial wall mount temperature and humidity sensors - IP54 sensor, IP55 case

Part Number	Description
DPPC110000	-10 to +60°C 4-20mA temperature, 10-90%rH 4-20mA humidity
DPPC112000	-10 to +60°C 0-10V temperature, 10-90%rH 0-10V humidity
DPPC210000	-20 to +70°C 4-20mA temperature, 0-100%rH 4-20mA humidity
DPPC212000	-20 to +70°C 0-10V temperature, 0-100%rH 0-10V humidity

## Duct mount temperature and humidity sensors - IP40 sensor, IP55 case

Part Number	Description
DPDC110000	-10 to +60°C 4-20mA temperature, 10-90%rH 4-20mA humidity
DPDC111000	-10 to +60°C NTC temperature, 10-90%rH 4-20mA humidity
DPDC112000	-10 to +60°C 0-10V temperature, 10-90%rH 0-10V humidity
DPDC114000	-10 to +60°C temperature, 10-90%rH humidity, through serial RS485 CAREL
DPDC210000	-20 to +70°C 4-20mA temperature, 0-100%rH 4-20mA humidity
DPDC212000	-20 to +70°C 0-10V temperature, 0-100%rH 0-10V humidity



## Pressure Transmitters | 4-20mA Output

Part Number	Description
SPKT00G1C0	0 to 60bar (male connector - requires SPKC)
SPKT00D8C0	0 to 150bar (male connector - requires SPKC)
SPKT0021C0	-0.5 to 7bar (female connector - requires SPKC)
SPKT0021C3	-0.5 to 7bar (female connector - requires SPKC) - packed for distribution
SPKT0011C0	0 to 10bar (female connector - requires SPKC)
SPKT0011C3	0 to 10bar (female connector - requires SPKC) - packed for distribution
SPKT0041C0	0 to 18.2bar (female connector - requires SPKC)
SPKT0031C0	0 to 30bar (female connector - requires SPKC)
SPKT0031C3	0 to 30bar (female connector - requires SPKC) - packed for distribution
SPKT00B1C0	0 to 45bar (female connector - requires SPKC)
SPKT00B1C3	0 to 45bar (female connector - requires SPKC) - packed for distribution

## Pressure Transmitters | Ratiometric 0-5V Output

Part Number	Description
SPKT0053P0	-1.0 to 4.2 bar (female connector - requires SPKC)
SPKT0113P0	-1.0 to 9.3bar (female connector - requires SPKC)
SPKT0013P3	-1.0 to 9.3bar (female connector - requires SPKC) - packed for distribution
SPKT0143P0	0 to 17.3bar (female connector - requires SPKC)
SPKT0033P0	0 to 34.5bar (female connector - requires SPKC)
SPKT0033R3	0 to 34.5bar (female connector - requires SPKC) - packed for distribution
SPKT00B6P0	0 to 45bar (female connector - requires SPKC)
SPKT00B6P3	0 to 45bar (female connector - requires SPKC) - packed for distribution
SPKT00L1S0	0 to 90bar Stainless steel (female connector - requires SPKC)

## Packard connectors for SPKT pressure transmitters/transducers - IP67

Part Number	Description
SPKC002321	Packard connector for SPKT 2.0m cable
SPKC002313	Packard connector for SPKT 2.0m cable - packed for distribution
SPKC005321	Packard connector for SPKT 5.0m cable
SPKC005313	Packard connector for SPKT 5.0m cable - packed for distribution

# Other Sensors



## GLD small detector with built in semiconductor sensor, -40 to +50°C, IP67

NEW PRODUCTS

Part Number	Description
GDSBSMXC00	GLD Small Sensor, Type 1, 24V ac/dc, Internal Sensor, Bluetooth Refrigerants: R32, R407A, R407C, R407F, R410A, R448A, R449A, R452A, R452B, R454A, R454B, R454C, R455A, R464A, R465A, R466A, R468A, R507A
GDSBSHFC00	GLD Small Sensor, Type 2, 24V ac/dc, Internal Sensor, Bluetooth Refrigerants: R22, R134A, R404A, R450A, R513A, R1234YF, R1234ZE, R1233ZDE
GDSBSHCC00	GLD Small Sensor, Type 3, 24V ac/dc, Internal Sensor, Bluetooth, Refrigerants: R50, R290, R600A, R1150, R1270

## GLD small detector with built in infra-red sensor for CO2, -40 to +50°C, IP67

NEW PRODUCTS

Part Number	Description
GDSBI20C00	R744/CO2 sensor, 0-10000ppm, 24V ac/dc, Bluetooth



## GLD small detector with remote semiconductor sensor (5m lead), -40 to +50°C, IP67

NEW PRODUCTS

Part Number	Description
GDSRSMXC00	GLD Small Sensor, Type 1, 24V ac/dc, External Sensor, Bluetooth, Refrigerants: R32, R407A, R407C, R407F, R410A, R448A, R449A, R452A, R452B, R454A, R454B, R454C, R455A, R464A, R465A, R466A, R468A, R507A
GDSRSHFC00	GLD Small Sensor, Type 2, 24V ac/dc, External Sensor, Bluetooth, Refrigerants: R22, R134A, R404A, R450A, R513A, R1234YF, R1234ZE, R1233ZDE
GDSRSHCC00	GLD Small Sensor, Type 3, 24V ac/dc, External Sensor, Bluetooth, Refrigerants: R50, R290, R600A, R1150, R1270

## GLD small detector with remote infrared sensor (5m lead), -40 to +50°C, IP67

NEW PRODUCTS

Part Number	Description
GDSRI20C00	R744/CO2 sensor, 0-10000ppm, 24V ac/dc, Bluetooth

## GLD small Accessories

NEW PRODUCTS

Part Number	Description
GDOPZT0010	GLD small Calibration Kit
GDOPZSMX10SP	GLD small Replacment Sensor, Type 1
GDOPZSHF10SP	GLD small Replacment Sensor, Type 2
GDOPZSHC10SP	GLD small Replacment Sensor, Type 3



## Wall mount combined light and presence detection sensors

Part Number	Description
DPWAE08000	Outdoor sensor, 24Vac, light range output 4-20mA, motion detection passive infrared, ambient temperature -30 to + 70, IP65
DPWAI08000	Indoor sensor, 24Vac, light range output 4-20mA, motion detection passive infrared, ambient temperature 0 to + 50, IP30



## Air Differential Pressure Switch

Part Number	Description
DCPD011100	Differential pressure switch for air 20 to 200Pa with mounting kit



## Flood Sensor

Part Number	Description
FLOE000010	Flood controller (DIN rail mount)
FLOR000000	Flood sensor tape (roll of 25m)
FLOS000000	Flood sensor

# Other Controllers and Accessories



It is important that the motor being controlled is suitable for Phase Cut Modulation.

Not all motors are suitable for this type of modulation. Please check this with the manufacturer of the fan.

The power boards must be connected to a controller for control signal. Our IR33E9 universal series have 2 x 0-10V outputs for control signals to the FCS boards.

## FCSM 230V single phase power boards

Part Number	Description
FCSM042300	Fan speed control card 4A
FCSM082300	Fan speed control card 8A
FCSM122300	Fan speed control card 12A

## FCR3 415V three phase power boards

Part Number	Description
FCR3064020	FAN SPEED CONTROL 6A -20...50C - IP55 - RS485 MODBUS
FCR3094040	FAN SPEED CONTROL 9A -20...50C - IP55 - RS485 MODBUS
FCR3124020	FAN SPEED CONTROL 12A -20...50C - IP55 - RS485 MODBUS
FCR3204020	FAN SPEED CONTROL 20A -20...50C - IP55 - RS485 MODBUS
FCR3404020	FAN SPEED CONTROL 40A -20...50C - IP55 - RS485 MODBUS

## Fan speed controllers PWM input for microChiller, microAC and microRack series

Part Number	Description
MCHRTF04C0	Fan speed control (spade terminals) 4A
MCHRTF08C0	Fan speed control (spade terminals) 8A
MCHRTF12C0	Fan speed control (spade terminals) 12A

## FCP stand-alone electronic fan speed controller

Part Number	Description
FCPM082010	Fan speed controller 8A 230V (Master) - requires ratiometric sensor(s)
FCPM00A01K	Fan speed controller 8A 230V kit with pressure sensor 0 to 34bar

## Accessories for FCP controllers

Part Number	Description
PSOPZKEY00	Programming Key for FCP



## Transformers

Part Number	Description
MP-3159	30W 24V 2.5A Din Rail Power Supply
TRA12VDE00	230/12 Vac 3VA (VDE)
TRA2400001	230/24 Vac 3VA (VDE)
TRADR4W024	DIN rail mount 230/24 Vac 4VA
TRA0060000	230/12&24 Vac 5VA for IR33*9 and MasterCella Split
TX40	230/24 Vac 40VA
TX60	230/24 Vac 60VA
TX100	230/24 Vac 100VA
TX150	230/24 Vac 150VA
TX300	230/24 Vac 300VA
TRADRBE240	DIN rail mount 230/24 Vac 20VA with fuse holder
TRA00BE240	Surface mount 230/24 Vac 20VA with fuse holder
TXPI24	230/24 Vac 24VA transformer plug pack

## Motor Protection

Part Number	Description
THP00A0000	Motor protector relay 24V
THP00C0000	Motor protector relay 230V

# Other Controllers and Accessories

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# Conditions of Sale

## CAREL AUSTRALIA PTY LIMITED ACN 067 528 269

### 1. General

Any contract between CAREL Australia Pty Limited ("the Company") and its Customers for the supply of goods shall automatically incorporate these conditions which shall prevail over any other conditions attached to any order or acceptance or other written or oral intimation notwithstanding any conditions therein to the contrary and any such other conditions shall not form part of the contract between the Customer and the Company.

### 2. Retention of Title

1. Notwithstanding delivery of the goods to the Customer, until the Customer has effected full payment for the goods and any other goods previously supplied by the Company:
  - a) legal title to the goods will remain with the company;
  - b) the risk in the goods will pass to the Customer on delivery to the Customer or its agent;
  - c) the relationship between the Company and the Customer will be fiduciary;
  - d) the Customer will:
    - hold the goods as bailee for the Company;
    - keep these goods separate from other goods; and
    - label the goods so that they are identifiable as the goods of the Company;
  - e) with the Company's consent (which is given), the Customer is at liberty to sell the goods, in the ordinary course of the Customer's business, provided that the money resulting from the sales will:
    - i) be held in a separate account in trust for the Company;
    - ii) not be mingled with other money; and
    - iii) not be placed into an overdrawn account; and
  - f) in the event that the Customer uses the goods in some manufacturing or construction process of its own or of third party then the Customer will hold such part of the proceeds of such manufacturing or construction process as relates to the goods on trust for the Company. Such part will be deemed to equal in dollar terms the amount owing by the Customer to the Company at the time of receipt of such proceeds.
2. The Customer is not an agent of the company in any sale of the goods by the Customer.
3. In the event that the Customer defaults, the Company may without demand retake possession of the goods and may without notice sell the goods on such terms and in such manner as it determines and will be entitled to deduct all expenses incurred.

For the purposes of recovering possession and without limiting the generality of the foregoing, the Customer irrevocably authorises and licenses the Company and its servants and agents to enter any premises where any goods may be stored and to take possession of the goods.

### 3. Risk and Insurance

- a) Risk in each order will pass to the customer upon delivery of that order to the customer or upon collection of that order by the customer agent or courier as the case may be.
- b) During the period between delivery and final payment for the goods, the Customer will maintain sufficient insurance thereon and provide evidence thereof in the name of the Company against loss or damage from any cause to cover the unpaid balance of the purchase price and failing to do so no loss or damage suffered during the aforesaid period shall relieve the Customer from payment of the balance of the purchase price or from any of the terms of this contract. During such period the Customer will maintain all goods and materials delivered by the Company in good condition.

### 4. Quotations and Prices

Prices quoted shall be based on those ruling at the date of quotation. Indent prices are based on the exchange rate and freight rates ruling at date of quotation. The Company reserves the right to revise prices and charges in the event of any change in costs and or exchange rate between the date of quotation and date of delivery. Prices are FOB ex our company maintained warehouse facilities. Goods and Services Tax (G.S.T.) is not included in prices quoted (unless specified), and will be charged as a separate item on the Tax Invoice.

### 5. Payment

- a) Payment shall be made within 30 days following date of dispatch from the Company store unless otherwise specified.
- b) It shall be a condition precedent to future deliveries that all payments due to the Company shall have been made and if such payments shall not have been made and future deliveries are withheld accordingly, the Company shall not be liable to the Customer for non-delivery or otherwise howsoever.
- c) Any expenses, costs or disbursements incurred by the Company in recovering any outstanding monies including debt collection agency fees and solicitors costs shall be paid by the Customer providing that those fees do not exceed the scale charges as charged by that debt collection agency/solicitor.
- d) The Company shall be entitled without notice to terminate any credit arrangement with the Customer in the event of the Customer defaulting in any of the terms and conditions herein contained.
- e) The Company shall be entitled at any stage during the continuance of this Agreement to request such security or additional security as the Company shall in its discretion think fit and shall be entitled to withhold supply of any goods or credit arrangements until such security or additional security shall be obtained.
- f) The Company shall be at liberty at its discretion to charge interest on all overdue accounts at the rate of 20 per centum per annum.

### 6. Delivery

- a) While the Company will make every effort to effect delivery in accordance with pre-arranged dates, no guarantee is implied as to delivery dates nor will the Company be liable for any loss or damage arising from delays in delivery howsoever caused and whether in respect of the whole or part of the goods ordered and a delay in delivery shall in no event entitle the customer to claim for any consequential loss or damage or to cancel rescind or terminate the contract.
- b) Subject as above, delivery shall be taken by the Customer within the period (if any) named in the quotation or order and such full details as may be necessary (or required by the Company) to enable the Company to complete the delivery within such period shall be supplied by the Customer. If for any reason the Customer is unable to accept delivery of the goods at the time when the goods are due and ready for delivery the Company shall if its storage facilities permit, store the goods and take reasonable steps to prevent the deterioration until the actual delivery and the Customer shall be liable to the Company for the reasonable cost (including insurance) of it so doing. This provision shall be in addition to, not in substitution of, any other payment or damages for which the Customer may become liable in respect of this failure to take delivery at the appropriate date.

### 7. Claims

- a) The Company shall not be liable for any direct or consequential loss or damage attributable to defects in the goods nor in respect of conditions or warranties whether expressed or implied by statute or at common law which have not been confirmed by the Company in writing.
- b) The Buyer shall indemnify and save harmless the Company against all proceedings, claims, demands, costs and expenses made against or incurred by the company in respect of the goods sold hereunder or any installation thereof by the Customer or his employees, agents or representative.
- c) Any complaints of damage or short delivery or loss in transit must be made to the Company within fourteen days of delivery.

The Company shall have the option of repairing, replacing or crediting the value of the goods in respect of which any complaint as aforesaid is made and proven, thereby fully discharging all legal liability

# Conditions of Sale

## 8. Guarantee

- a) Subject as is hereinafter provided the Company will replace or repair at its own cost all goods which are or become faulty by reason only of the use of defective materials or by reason of defective workmanship within a period of 12 calendar months from the date of delivery provided that the Customer has notified the Company in writing of the fault within that period.
- b) The Customer shall, as soon as practicable after discovering any such defect or fault, return the defective goods or parts thereof to the Company unless it has been agreed between the parties that the necessary replacement or repair shall be carried out by the Company on the Customer's premises or on the premises where the goods have been installed.
- c) The Company shall be under no liability to the Customer in respect of defects in the goods supplied except as specified in this clause nor shall it be responsible for any personal injury or damage or loss of any kind attributable to defects in such goods but the Customer will keep the Company indemnified against any such claim.
- d) In the event of the Customer attempting to repair the goods without the written consent of the Company the provisions of this clause become null and void.
- e) The terms in these conditions of sale that exclude or limit the Company's liability will apply only to the extent permitted by law. The provisions of the Competition and Consumer Act 2010 (Cth) (as amended) and other statutes from time to time in force cannot be excluded, restricted or modified or can only be restricted or modified to limited extent. These conditions of sale must be read and construed subject to any such statutory provisions. If any such statutory provisions apply, then to extent to which the Company is entitled to do so, its liability under those statutory provisions will be limited at its option to:
  - i) the replacement of the goods or the supply of equivalent goods; or
  - ii) the repair of the goods; or
  - iii) the payment of the cost of replacing the goods or of acquiring equivalent goods; or
  - iv) the payment of the cost of having the goods repaired.

## 9. Returns

Materials returned for credit will be accepted at the sole discretion of the Company. Equipment which is in original condition may be accepted for a maximum credit of 75% of the original net price to the Customer.

## 10. Cancelled Orders

Where equipment is specifically ordered from our suppliers to meet an order requirement and that order is subsequently cancelled, the Customer shall at the discretion of the Company, be subject to cancellation fees (eg overseas freight charges, duty etc).

## 11. Force Majeure

No liability will be accepted for any failure of, or delay in performance when performance is wholly or partially delayed hindered or prevented by any circumstances which is not within the Company's immediate control including, but without limiting the generality of the foregoing, strikes, lockouts, labour disputes of any kind, fires, accidents, breakdown of plant, delay of transport, unavailability of materials, war, hostilities or any local or national emergency, compliance with any order or request of a Government or other public authority or force Majeure of any kind.

## 12. Warranty

The relevant warranty provided by the Company for its goods and the conditions that apply to that warranty are either set out in the Company's current technical literature for the relevant goods or on the Company's website. The warranties and their conditions are deemed to form part of these terms.

## 13. PPSA

- 1) Unless otherwise defined in these terms, the capitalised terms and expressions used in this clause 13 have the meanings given to them in the Personal Property Securities Act 2009 (Cth) (PPSA).
- 2) The Customer acknowledges and agrees that it will grant to the Company a Security Interest in the goods and their Proceeds, including any Accounts, Accessions and Commingled Goods.
- 3) The Customer acknowledges that any purchase by it on credit terms from the Company, or any retention of title supply pursuant to these terms, Attaches on delivery of the relevant goods and constitutes a Purchase Money Security Interest.
- 4) The Customer agrees that:
  - a) these terms or, subject to the Company giving the Customer at least seven (7) days' notice, such other terms and conditions as the Company may adopt from time to time, apply to the supply of goods by the Company to the Customer to the exclusion of all other terms and conditions of sale or purchase to the extent permitted by law and constitute a Security Agreement pursuant to the PPSA;
  - b) no variation to these terms will be of any effect unless agreed to by the Company in writing;
  - c) the goods supplied by the Company secure the payment of the purchase price of those goods and of any other goods supplied by the Company with priority to the fullest extent permitted by law over all other registered or unregistered Security Interests;
  - d) the Customer will do all the things necessary in the Company's reasonable opinion, including providing all information the Company requires, to register a Financing Statement or Financing Change Statement on the Register as a Security Interest and/or a Purchase Money Security Interest;
  - e) the Customer will not change its name or ABN or other details required in respect of registration, or maintenance of registration, of each Security Interest on the Register, without first notifying the Company in writing;
  - f) the Customer waives its right to receive a Verification Statement in respect of any Financing Statement or Financing Change Statement in respect of any Security Interest created pursuant to these terms; and
  - g) The Company reserves the right to charge an administration fee for registration, or maintenance of registration, of any Security Interest arising under these terms.
- 5) If the provisions of Chapter 4 of the PPSA would otherwise apply, to the maximum extent permitted by law, the Customer agrees that Sections 129(3), 132(3)(d), 132(4), 134(1), 135, 142 and 143 of the PPSA will not apply.
- 6) To the maximum extent permitted by law, the Customer contracts out of, and waives any rights the Customer may have pursuant to, Sections 95 and 96, and if the provisions of Chapter 4 of the PPSA would otherwise apply, Sections 117, 118, 121(4), 123, 129(2) and 130 of the PPSA
- 7) In addition to any other rights under these terms, the Company may exercise any and all remedies set out in the PPSA including, without limitation, entry into any building or premises owned, occupied or used by the Customer, to search for and seize, dispose of or retain those goods in respect to which the Company has a Security Interest. In this regard, the Customer acknowledges that Sections 126, 128, and 129(1) of the PPSA relating to seizure of goods and disposal of seized goods apply.
- 8) The Customer agrees with the Company that neither will disclose any confidential information of the kind referred to in Section 275(1) of the PPSA and that this clause 8 constitutes a confidentiality agreement within the meaning of Section 275(6)(a) of the PPSA.
- 9) The Customer waives any rights the Customer may have under Section 275(7)(c) of the PPSA to authorise disclosure of any confidential information that is protected from disclosure under Sub-clause 8.

## 14. Miscellaneous

The Company shall be at liberty by notice in writing to the buyer to immediately suspend or cancel performance of this Contract if the Customer be declared bankrupt or if a Company, it be subject to a Winding-up order or if a Receiver or Manger or Receiver and Manager of its assets be appointed or if it shall commit any breach of or fail to perform any one or more of the terms and conditions on its part herein contained or shall fail to rectify or discontinue such breach or non-performance within seven (7) days after notice in writing by the Company so to do, the Company may by notice in writing terminate this Contract forthwith but any such termination shall not affect any other rights or remedies which the Company may have in consequence of any such breach or non-performance.







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