

## FREOCOM FCR12™

ONE OUTPUT, TWO INPUTS  
TEMPERATURE CONTROL AND VOLTAGE PROTECTION FOR ALL FRIDGES AND FREEZERS

### Description

The FCR12 has one control output and has two probe inputs.

It provides very accurate temperature control to your refrigeration appliance, timed and/or temperature controlled defrost and protects equipment from high and low voltage.

Encapsulation provides reliability and immunity from environmental factors such as humidity and altitude. A connection port is provided for programming. These factors make the FCR12 the low cost solution for high performance control of all refrigeration equipment.



- Compact design, small size
- Drop-in replacement for electro-mechanical thermostat

### Features

- Highly accurate temperature measurement and control –not affected by barometric pressure
- Small physical size
- Direct retrofit to the electro-mechanical thermostat
- Two external remote temperature probes for precise measurement of air, evaporator or condenser
- Temperature dial user adjustable in-situ. Range can be OEM specified
- Automatic delay with TimeSave™ function (brownout)
- Timed/automatic defrost
- Suitable for evaporator control or air control
- Suitable for CO<sub>2</sub> and HC
- High impedance inputs
- Can Interface to door switch
- Available as 115 or 230Vac versions
- High voltage protection
- Low voltage protection
- Spike/surge protection
- In-circuit programming – allowing the units to be re-programmed while installed in the field
- SPP USB programmer and configuration software available
- Encapsulated circuit board to give water splash resistance for rugged applications

Current rating	1x16A
Weight (g)	90
Dimensions (mm)	76 x 35 x 30
No. Temp probe inputs	2
No. Control outputs	1

Order probes separately

### Features:



## Specifications

Temperature Control*	Air or evaporator	
Time Delay*	180s	
Defrost Control*	Timed or active	
Voltage Protection*	High voltage and low voltage	
Over temperature protection*	Compressor probe	
Output- compressor	16A 250Vac	
	70A Inrush Current @ 240Vac	
	140A Inrush Current @ 120Vac	
	0.75HP @ 120Vac	
	1.5HP @ 240Vac	
	4000 VA Breaking Capacity	
Indication	1 off LED	
Central knob	Yes	
Mounting	1 off M10 nut (provided)	
Programming connector	Micro-USB	
Door switch	Via second probe input	
Temperature control range	-28°C to +25°C	
Overheat alarm	+30°C to +120°C	
Nominal Voltage	230V	115V
High Voltage Disconnect*	266V	133V
High Voltage Reconnect*	260V	130V
Low Voltage Disconnect*	180V	90V
Low Voltage Reconnect*	186V	93V
Under Voltage Blind Time*	2s	
Immediate Disconnect Voltage*	150V	
Over Voltage Blind Time*	0.5s	
Control	Microprocessor	
Working frequency	Auto-sense 50/60Hz	
Surge Protection	6.5kA	
Power Connections	0.25" spade terminals suitable for push-on crimps	
Environmental	Sealed and protected against water, humidity, dust and insects	
Unit Dimensions	76 x 35 x 30mm	
Unit Weight	90g	
Temperature Probe Type	NTC Thermistor	
Temperature Probe Length	1 meter or 3 meters (different lengths available)	

## Packing Specifications

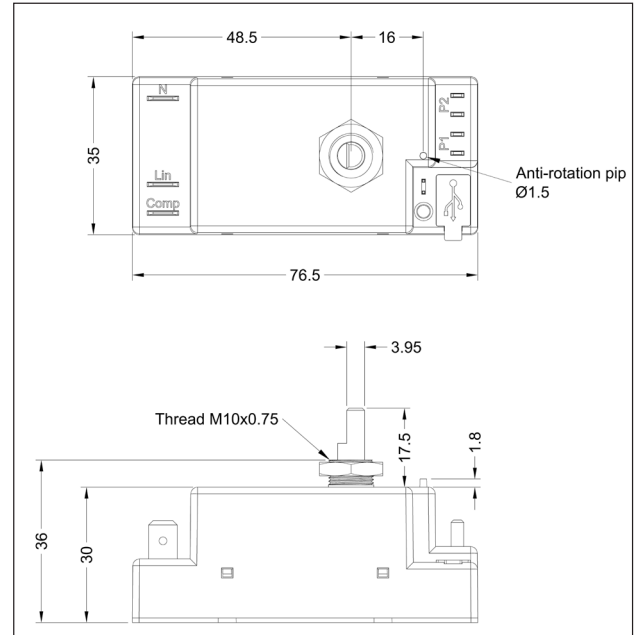
Carton Dimensions (cm)	30.4 x 50.7 x 27.7
Carton Weight	NW: 18kgs, GW: 20kgs
Cartons per Pallet	21
Pallet Dimensions (cm)	120 x 100 x 100
Pallet Weight (kgs)	441 approx

All the above mentioned operational parameters are configurable based on the customer's needs.

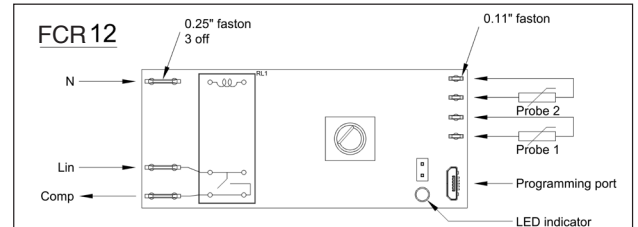
\*Programmable

STOCK NO.	DESCRIPTION
92330121	FreoCom FCR12 115V 1xO/P 2xl/P
92330122	FreoCom FCR12 230V 1xO/P 2xl/P
9T16030B	Temp Probe 6mm Black 3m -20 to +70C
9T23010B	Temp Probe 3mm Black 1m -20C to +20C
9T23010R	Temp Probe 3mm Red 1m -20C to +20C
9T23010W	Temp Probe 3mm White 1m -20C to +20C
9T23030B	Temp Probe 3mm Black 3m -20C to +20C
9T25010B	Temp Probe 5mm Black 1m -20C to +20C
9T25015B	Temp Probe 5mm Black 1.5m -20C to +20C
9T25030B	Temp Probe 5mm Black 3m -20C to +20C
9T26010B	Temp Probe 6mm Black 1m -20C to +20C
9T26030B	Temp Probe 6mm Black 3m -20 to +20C
9T45010R	Temp Probe 5mm Red 1m +50C to +90C
9T45030R	Temp Probe 5mm Red 3m +50C to +90C

## Dimensions



## Connections



For more information on Sollatek's Refrigeration Control Range refer to the FreoRange Catalogue or visit [www.sollatek.com](http://www.sollatek.com)

**Sollatek**™  
Intelligent Controls