



CX: 32x74mm

## IC200CX -1 OR 2 CIRCUIT – UP TO 4 STEP CONTROLLERS

The necessities of the dynamic world of conditioning find the answer in the **IC200CX** controllers. This series, allows management and control **of chillers, heat pumps and geothermal heat pump units** (with **solar** integration and **sanitary hot water** production) with single or dual circuits "gas and water reversibility" and up to 4 steps. By means of a compact instrument, the possibility of controlling and managing system like:

**air/air – "roof top"**

**air/water**

**water/water**

**motor-condensing**

### PLUS

- Single circuit/compressor stand-by through key
- LAN for master/slave connection
- Combined/forced defrosting
- Alarm control, even in stand-by or remote off
- Pump-down function (stop and start)
- PWM/4÷20mA/0÷10V output for condensing management
- Temperature/pressure unloading function
- Screw compressor management
- Compressor rotation control (also from start/hour number)
- Direct, part-winding, star-delta compressor start
- Dynamic set point
- Geothermal free cooling management
- Compressor management through inverter
- EEV management
- Start and stop by time bands (from RTC)
- Energy saving by time bands (from RTC or digital input)
- Easy programming through HOT KEY 64 or PC (PROG TOOL KIT)
- TTL (convertible in RS485) serial output with ModBUS protocol

DISPLAY ICON	MEANING
°C	Celsius degrees
°F	Fahrenheit degrees
bar	Bar
PSI	PSI
1	Compressor 1
2	Compressor 2
☀	Unit on – heat pump status
❄	Unit on – chiller
❄	Defrost start delay / Defrost on
🕒	RTC
💧	Water pump – Supply fan
🔥	Anti-freezing heater
⚠	Generic alarm
Cir1	Circuit 1
menu	Function menu



## COMPLETE

The **dual display** and the **icons** display complete information about the machine status. With a single touch of one key, all main functions of the cooling system are displayed without the need to enter programming mode.

DISPLAY	MEANING
☀	Condenser fan
🔌	Open collector output on
Cir2	Circuit 2
Vset	Dynamic set / Energy saving on
Flow!	Flow alarm

## CONNECTIONS

All the controllers of the ICHILL series, have connection for quick wiring.

## ALARM MANAGEMENT

The user interface give complete visual information about the plant status and allow the acknowledgement of the alarm events signals.



Each alarm has a dedicat label  
(eg. C1tr: thermal compressor 1 alarm)



Alarm reset protects by password

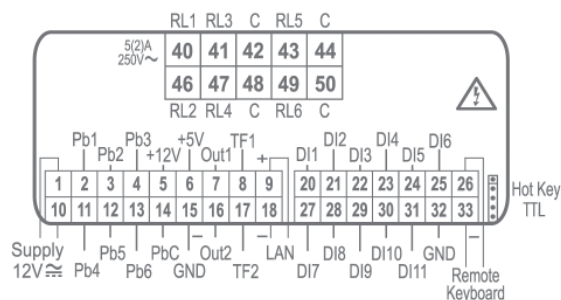


Internal data logger (up to 100 events)

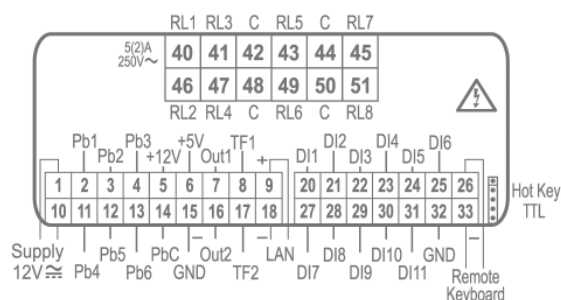
## CONTROLLED DEVICES

- 1 circuit – 1 compressor up to 4 steps management
- 2 circuits – 1 compressor with 1 capacity stages management
- 2 circuits – 1 compressor for circuit management
- Management of up to 2 evaporator section and 2 condenser section water pumps
- Management of up to 2 proportional or ON/OFF outputs 0÷10V
- 2 configurable 0÷10V AUX outputs
- 2 remote LED keyboard management
- 1 remote LCD (VISOGRAPH) keyboard management

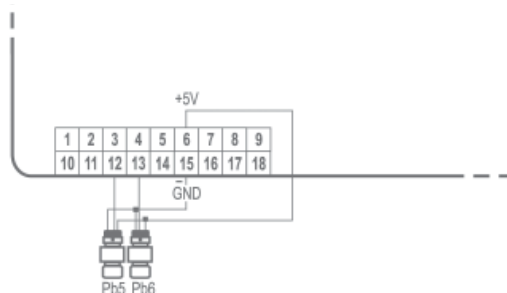
## IC206CX



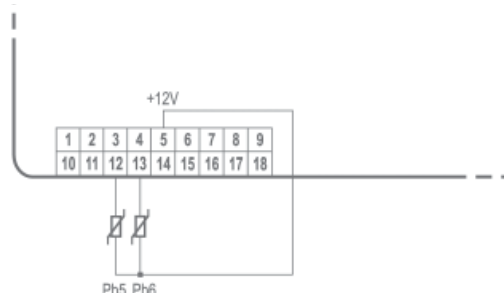
## IC208CX



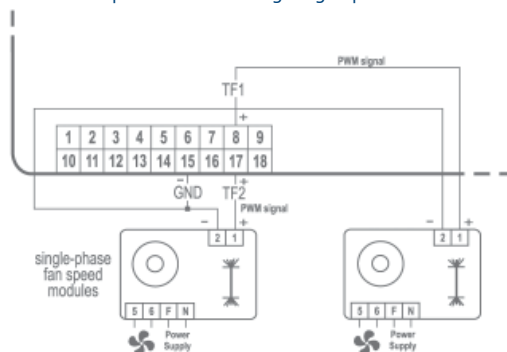
Analogue input for ratiometric pressure transducer PPR30 (0÷5V signal)



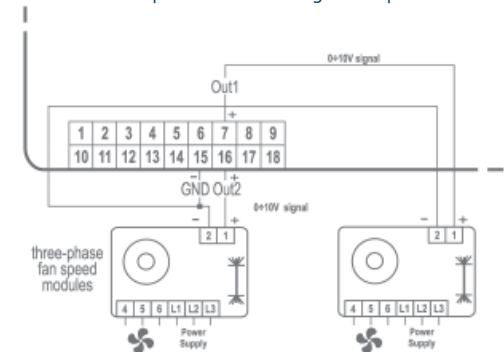
Analogue input for pressure transducer PP30 (4÷20mA signal)



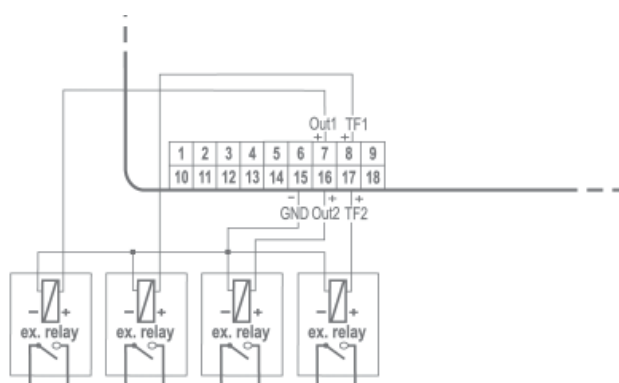
PWM output for condensing single-phase fans



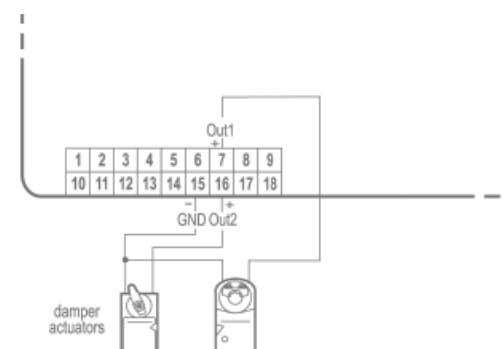
0÷10V output for condensing three-phase fans



Proportional outputs configured for aux relay control



Proportional outputs configured for damper control (0÷10V)



EXAMPLE OF APPLICATION FOR 2 CIRCUIT UP TO 2 COMPRESSOR AIR/WATER CHILLER

