



D: 10 DIN Rail

L: 38x185mm

IC200 SERIES: 2 CIRCUITS up to 6 COMPRESSOR UNIT CONTROLLERS

IC200 is Dixell's answer to the necessities of **chiller units and heat pumps**. Compactness, extreme flexibility and advanced functions such as free cooling and sanitary hot water production are only some of the main elements that make the series complete and suitable for the majority of plants. Controlled units can be **single or dual circuit up to 6 compressors** such as: **air/air, air/water, water/water, motor-condensing**.

- Compressor rotating control (also from start/hour number)
- Direct, part-winding, star-delta compressor start
- Screw compressor management
- Pump-down function (stop and start)
- Sanitary hot water production
- Temperature/pressure unloading function
- Forced defrost
- Combined defrost
- Dynamic set point
- Start and stop by time bands
- Second set point (by time bands or digital input)
- PWM/4÷20mA/0÷10V output for condensing control
- Easy programming through HOT KEY or PC (WIZMATE PROG TOOL KIT)
- RS485 and/or TTL (convertible in RS485) serial output with ModBUS protocol
- Alarm control, even in stand-by or remote off

CONTROLLED DEVICES

- 1 circuit - 1 compressor up to 3 capacity stages management
- 2 circuits - 1 compressor up to 3 capacity stages management
- 2 circuits - 6 compressor management
- Management of 2 evaporator section and 2 condenser section water pumps (switched)
- Management of up to 4 0÷10V analog outputs
- 2 configurable AUX relay outputs
- Remote keyboard management: 2 LED display and 1 LCD display

COMPLETE

The **dual display** with **icons** on L format and VI620 vertical terminal, and the Visograph **LCD graphic display**, give complete information about the machine status. All main functions of the cooling system are displayed with a single touch of one key, without the need to enter programming mode. Also the **alarm management** is easy and immediate thanks to this user interface that quickly provides any alarm event signals.



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



Alarm reset protects by password



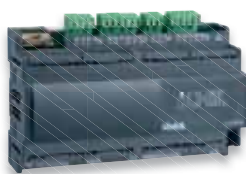
Internal data logger (up to 100 events)

CONNECTIONS

All controllers have quick tab connectors that make the mounting easier and quicker.



2 CIRCUIT - up to 6 COMPRESSOR UNIT CONTROLLERS



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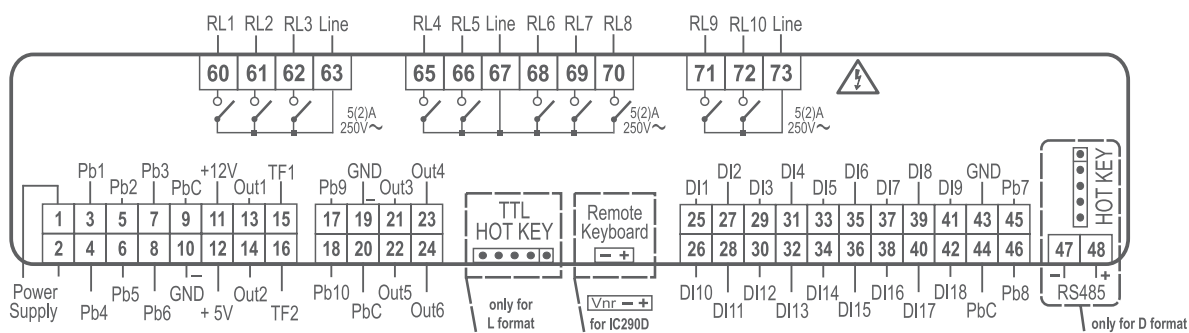


L: 38x185mm

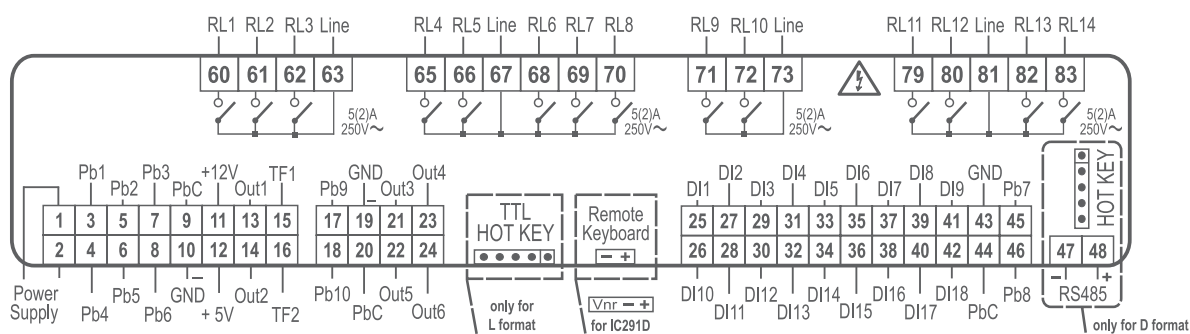
IC260L IC261L	Advanced multifunction controllers for chillers with heat pump (integrated keyboard/LED display)
IC260D IC261D	Advanced multifunction controllers for chillers with heat pump (remote keyboard/LED display)
IC290D IC291D	Advanced multifunction controllers for chillers with heat pump (remote keyboard/LCD display)

FEATURES	IC260L	IC260D	IC261L	IC261D	IC290D	IC291D
First display: n° digits	± 3 d.p.		± 3 d.p.			
Second display: n° digits	± 4 d.p.		± 4 d.p.			
Power supply	12, 24Vac/dc	12, 24Vac/dc	12, 24Vac/dc	12, 24Vac/dc	12, 24Vac/dc	12, 24Vac/dc
Probe inputs						
NTC/PTC/4÷20mA/0÷5V	4 config	4 config	4 config	4 config	4 config	4 config
NTC/PTC	6 config	6 config	6 config	6 config	6 config	6 config
Digital inputs						
Free voltage	18 config	18 config	18 config	18 config	18 config	18 config
Relay outputs						
5A	10 config	10 config	14 config	14 config	10 config	14 config
Other outputs						
PWM for fan speed module	2	2	2	2	2	2
4÷20mA/0÷10V for fan speed module	2 config	2 config	2 config	2 config	2 config	2 config
0÷10V for free cooling, external relay	4 config	4 config	4 config	4 config	4 config	4 config
RS485		pres		pres	pres	pres
TTL/Hot Key 64/Prog Tool Kit	pres	pres	pres	pres	pres	pres
Other						
Remote keyboard	2xVI620	2xVI620	2xVI620	2xVI620	VGI890	VGI890
Buzzer	opt	opt	opt	opt	opt	opt
Real time clock	opt	opt	opt	opt	opt	opt
Connection kit	LW30-KIT	LW30-KIT	LW30-KIT	LW30-KIT	LW30-KIT	LW30-KIT

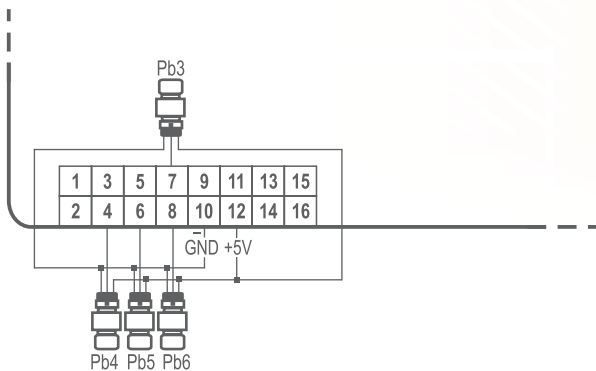
IC260L - IC260D - IC290D



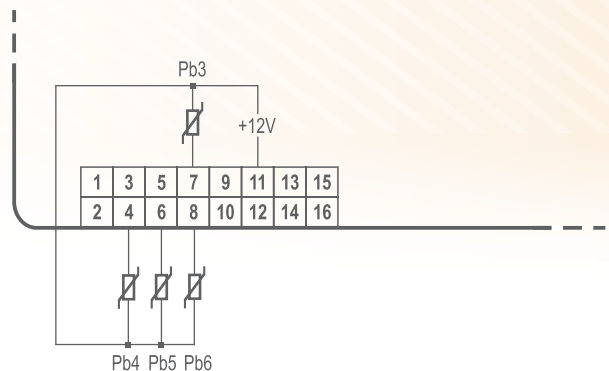
IC261L - IC261D - IC291D



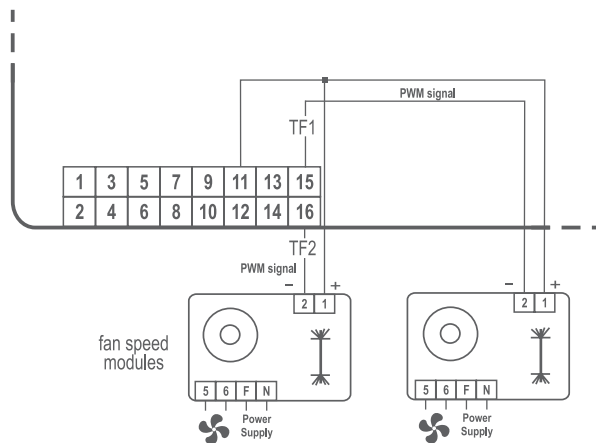
**Analog inputs
for ratiometric pressure transducer PPR30
(0÷5V signal)**



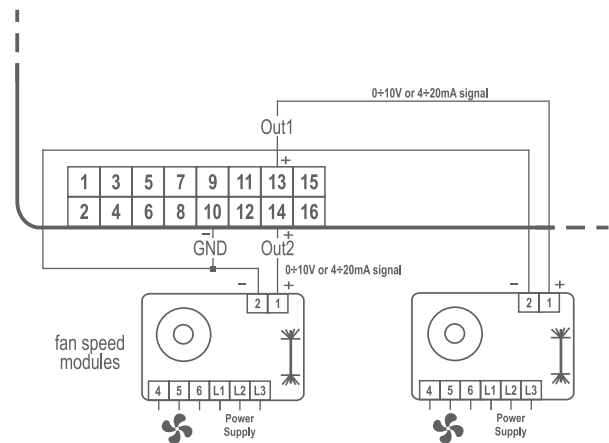
**Analog inputs
for pressure transducer PP30 (4÷20mA signal)**



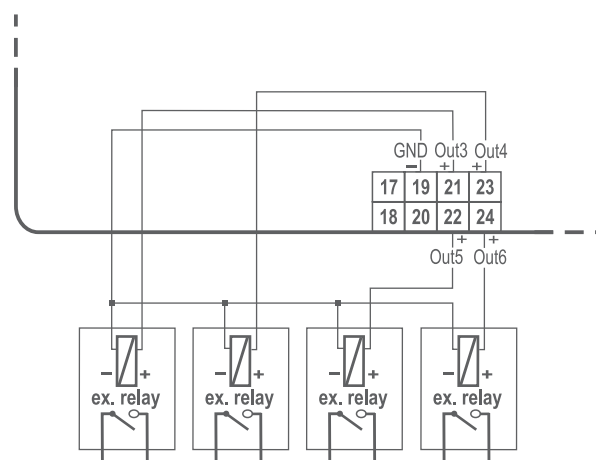
**PWM output
for condensing single-phase fans**



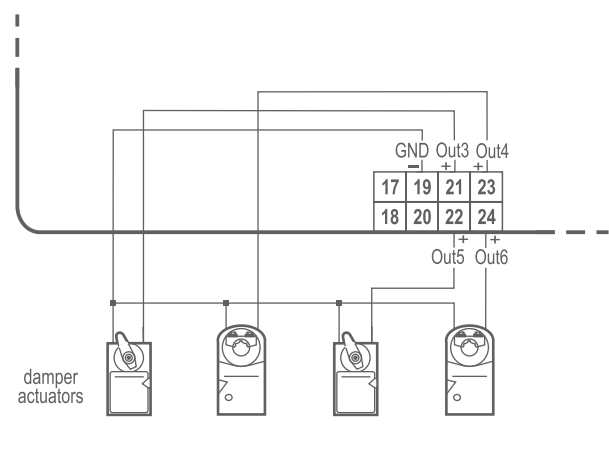
**0÷10V or 4÷20mA output
for condensing three-phase fans**



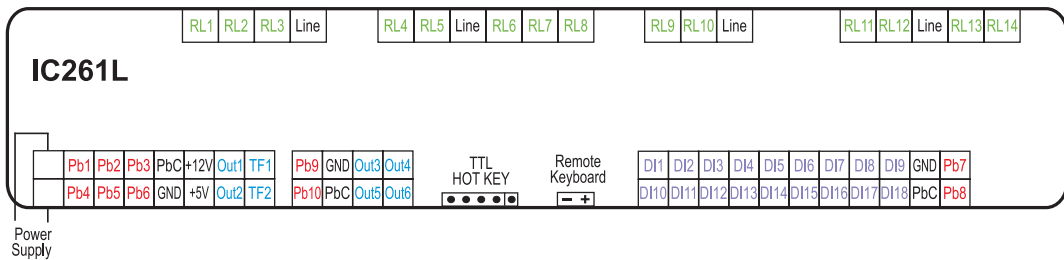
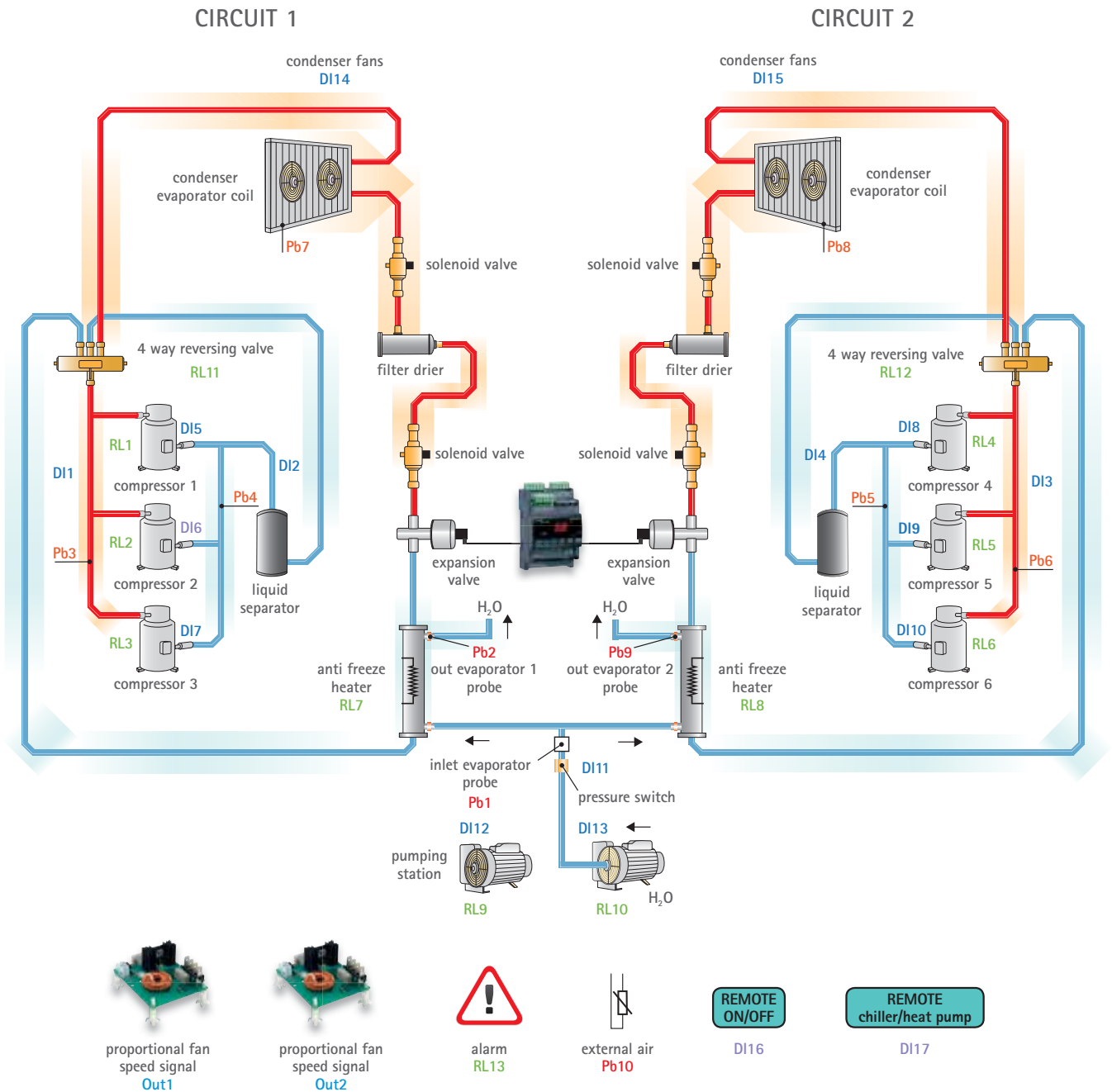
**Proportional outputs configured
for external relay control**



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



EXAMPLE of APPLICATION for 2 CIRCUIT up to 6 COMPRESSOR AIR/WATER CHILLER



TECHNICAL DATA

Housing	self extinguishing ABS
Format	L: frontal 38x185mm; depth 65,5mm D: frontal 110x175mm; depth 59,5mm
Display	L: 3 digits red LED + 4 digits yellow LED + icons
Mounting	L: panel mounting in 31x150mm cut-out D: DIN Rail or wall mounting through integrated brackets
Front protection	L: IP65 with gasket
Connections	disconnectable connectors
Power supply	12Vac/dc -10% ÷ +15%, 24Vac/dc ±10% 50/60Hz
Power absorption	10VA max
Relay outputs	10 or 14 SPDT 5(2)A, 250Vac
Analog outputs	2xPWM 2x4÷20mA/0÷10V/PWM 4x0÷10V
Data storing	non-volatile memory (EEPROM)
Operating temperature	-10÷55°C (14÷131°F)
Storage temperature	-30÷85°C (-22÷185°F)
Relative humidity	20÷85% (non condensing)
Measuring and regulation range	pressure probe: 0÷50bar (0÷725PSI) NTC probe: -50÷110°C (-58÷230°F) PTC probe: -50÷150°C (-58÷302°F)
Resolution	0,1°C or 1°F or 0,1bar or 1PSI
Accuracy (at ambient temperature)	± 0.7°C ± 1 digit

HOW to ORDER

IC200L

I	C	2			L	-	A	B	C	D	0
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IC200D

I	C	2			D	-	A	B	C	D	0
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A	B	C	D
Power supply	Measurement unit	RTC	Buzzer
0 = 12Vac/dc	0 = °C/bar	0 = No	0 = No
1 = 24Vac/dc	1 = °F/PSI	1 = Yes	1 = Yes
	2 = °C/KPA		