

# IPM500D SERIES

## MASTER/SLAVE MODULE

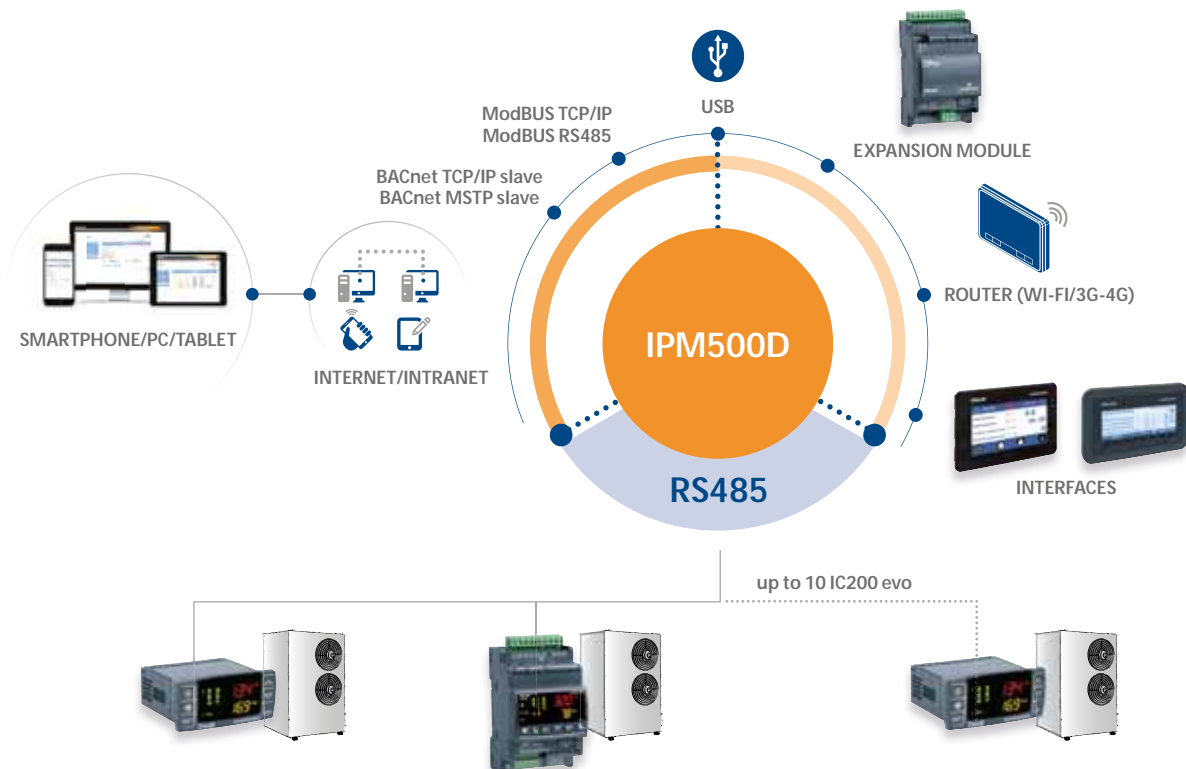


IPM500D is the master/slave module designed to better meet the demands of the HVAC world allowing the creation and management of most of the circuits, even the most complex ones. The master module can control different types of machines equipped with IC200 evo parametric controllers and adds further functionalities to the adjustment. IPM500D can be connected to VISOGRAPH graphic keyboard and VISOTOUCH touch display, ensuring an immediate and comprehensive overview of the status of plant variables.

- Up to 10 slave units (max. 40 steps) management
- Back-up management
- Resources re-distribution in case of unit local alarm
- Automatic defrost synchronization
- Over-boost
- Energy saving by scheduler
- Proportional or neutral zone regulation
- Adjustment made on the average active probes of the unit

### CONNECTIVITY

Thanks to IPM500D all the benefits of the iPro connectivity are available for the plant.





## WEB INTERFACE

The completeness and flexibility of the IPM500D module, offer the possibility to develop custom web pages for the master.



## BACK-UP MACHINE FUNCTION

One of the units in the system can be configured as back-up machine. The back-up machine offers considerable advantages to the system.

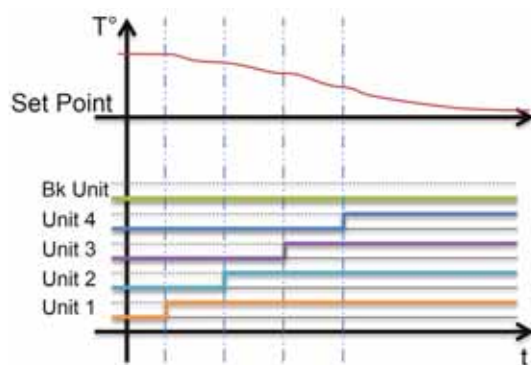
- Compensation of units in alarm for the maintenance of system power
- Rotation between units (in addition to the rotation between circuits and to that between compressors)
- Supply of extra-power during overboost phases

## OVERBOOST FUNCTION

The overboost function was developed in order to allow the system to reach the desired temperature in the shortest time possible by using all the available resources.

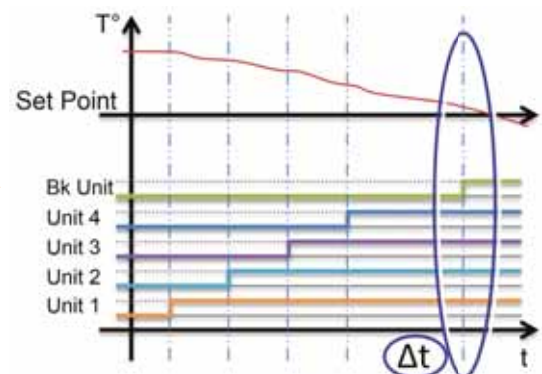
The function can be activated manually or timed.

### Without OVERBOOST



The power output is not enough for the set point to be reached

### With TIME OVERBOOST



The back-up unit delivers extra power allowing the set point to be reached

# MASTER/SLAVE MODULE



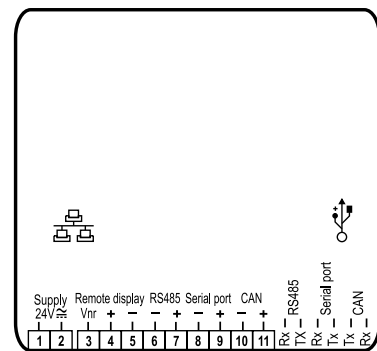
## IPM500D

Master/slave module with up to 10 slave units management (max 40 steps)

### FEATURES

### IPM500D

<b>Power supply</b>	24Vac/dc from TF20D
<b>Outputs</b>	
RS485	slave
USB	pres
RS485	master
CANBus	pres
Ethernet	pres
<b>Other</b>	
Remote keyboard	V2IPM/VTIPM
Expansion	IPX106D, IPX306D
Real time clock	pres
Flash memory	128MB
Connections	screw
Connection kit	IP-FC500



### TECHNICAL DATA

<b>Housing</b>	self-extinguishing ABS
<b>Format</b>	4 DIN Rail: frontal 110x70mm; depth 59,5mm
<b>Mounting</b>	DIN Rail or wall mounting through integrated brackets
<b>Power supply</b>	24Vac/dc $\pm 10\%$ 50/60Hz
<b>Power absorption</b>	20VA max
<b>Data storing</b>	on 128MB Flash memory
<b>RAM memory</b>	64MB
<b>Processor</b>	32bit
<b>CPU</b>	200MHz
<b>Operating temperature</b>	$-10 \div 60^{\circ}\text{C}$ ( $14 \div 140^{\circ}\text{F}$ )
<b>Storage temperature</b>	$-30 \div 85^{\circ}\text{C}$ ( $-22 \div 185^{\circ}\text{F}$ )
<b>Relative humidity</b>	$20 \div 85\%$ (non condensing)
<b>Measuring and regulation range</b>	$-50 \div 110^{\circ}\text{C}$ ( $-58 \div 230^{\circ}\text{F}$ )
<b>Resolution</b>	0,1°C or 1°F
<b>Accuracy (at ambient temperature)</b>	$\pm 0,8^{\circ}\text{C}$ ( $\pm 1^{\circ}\text{F}$ )

### HOW to ORDER

I P M 5 0 0 D - 1 0 1 2 0

IPM500D