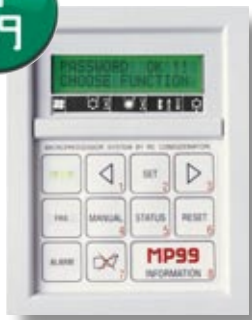


micro

MICROPROCESSOR CONTROLS AND SUPERVISION

MP
99



MP.COM
XS



MP2k
graphic



MICRO
chiller



MP
COM

MP.99

The MP99 microprocessor control system has been designed and produced by RC GROUP to control its medium and high capacity liquid chillers and heat pumps.

With MP99, the PROACTIVE logic originates, e.g. the capacity to protect the unit components granting operation stability even in emergency situations. The system can be expanded to increase the performances and to communicate with supervision systems. Other peculiarities are: double set-point with external command variation, pumps control and IDEA® defrosting system.



Functions:

- Control up to 4 compressors on 4 independent circuits
- Heat pump
- Free-Cooling
- Total heat reclaim
- Single language management (English)

Supervision:

- Protocol RC Standard (Johnson, Siemens, Plantwatch)
- Gateway MODBUS, JBUS
- Supervise RC

MICROCHILLER

The small MICROCHILLER microprocessor is used by RC GROUP for its small capacity liquid chillers and heat pumps management.



Functions:

- Control up to 2 compressors on 2 independent circuits
- Heat pump
- Communication through symbols

Supervision:

- RS485 serial port



MP.COMxs

The MP.COMxs microprocessor is used by RC GROUP for its air conditioners for Telecommunication applications management.



Functions:

- Control for 1 compressor
- Chilled water
- Multilanguage
- Remote terminal

Supervision:

- MODBUS, JBUS, Plantwatch direct connection
- GSM
- TCP/IP
- LAN up to 7 units with remote terminal

MP.2000 Graphic

The MP.2000 Graphic microprocessor is used by RC GROUP to control its air conditioners and heat pumps.

Specially designed for air conditioners, MP.2000.Graphic is characterized by the possibility of LAN connection, remotizable display, IDEA® defrosting system on heat pumps, direct Free-Cooling control and other specific peculiarities of the air conditioners.



Functions:

- Control up to 2 compressors on independent circuits
- Chilled water
- Dehumidification (only cooling)
- Additional coil (heating, Extra-Circuit, Free-Cooling (water))
- Multilanguage / Graphic display

Supervision:

- MODBUS, JBUS, Plantwatch direct connection
- GSM
- TREND, BACNET
- LAN up to 4 units with remote terminal
- Change Over for 4 units

MP.COM

The MP.COM microprocessor is used by RC GROUP to control its air conditioners and liquid chillers including heat pumps.

MP.Com is characterized by the use of the IDEA® defrosting logic in heat pump versions and by the Autoadaptive logic for automatic setting of the control parameters. This replaces human subjectivity with microprocessor objectivity, which modifies its choices according to the different operating conditions of the system.

MP.COM is equipped with flash memory, able to manage a GSM modem, to send SMS messages in case of alarm and with a Data Logger, with black box, for a correct analysis of the malfunction causes.

Version for Liquid Chillers



Functions:

- Cooling
- Heat pump
- Total heat reclaim
- Multifunction
- Free-cooling
- Stepless cooling capacity control for screw compressors
- Multilanguage / Graphic display

Configuration:

- Scroll / Screw compressors
- 1 / 2 / 3 refrigerant circuits
- Control up to 6 compressors, 3 compressors in parallel on each circuit

Supervision:

- MODBUS, JBUS, Plantwatch direct connection
- TREND, BACNET
- GSM
- Connection to other system through Gateway
- LAN up to 7 units

Version for Air Conditioners



Functions:

- Air flow control
- Thermal condition control for Displacement unit
- Direct FreeCooling (air) with humidity control (Displacement unit)
- Dehumidification for “only cooling” and heat pump
- Additional coil (heating, Extra-Circuit, Free-Cooling (Water))
- Multilanguage / Graphic display

Configuration:

- Scroll compressors
- 1 / 2 refrigerant circuits
- Chilled water

Supervision:

- MODBUS, JBUS, Plantwatch direct connection
- GSM
- LON, TREND, BACNET
- TCP/IP
- LAN up to 14 units
- Change Over for 6 units