

CAREL SISTEMA CONTROL SYSTEM



μ C sistema is the result of decades' long experience in the design and production of parametric controllers for HVAC units.

μ C sistema is made up of parametric controllers, in both the panel mounted and DIN rail versions, user interfaces, both local and remote, communication interfaces, input / output expansions and electronic expansion valve drivers.

Everything the OEM needs to operate in the HVAC sector with a flexible, economical and high performance control system. A wide range of applications can be customised by setting specific parameters, for chiller / HP appliances: air / water, water / water, air / air and roof – top units, up to two circuits, with a maximum of 3 compressors per circuit.

Advantages:

- Dimensionally compact
- possibility of connection to a remote terminal
- excellent reliability
- EEV management
- high efficiency icon ergonomic display
- simple wiring (new tLAN serial network)
- modular architecture

Main functions:

- Proportional water / air return and outlet control with timed logic
- P + I control
- Stepped control in each circuit
- Condenser / evaporator control
- Part – winding management
- Solenoid valve control and pump down management
- Sliding defrost in HP mode
- Electric heating step as independent anti - freeze support on the evaporator
- Control and warnings on component operating hours
- Part load operation for high pressure in chiller mode
- Preventive ventilation when starting with high outside temperatures
- Stop compressors for low outside temperature values
- Part load operation for low pressure (HP)
- Low noise in chiller and HP mode





- Set point variation and ON / OFF from time band
- Electronic expansion valve driver management
- Event logging: alarms with FIFO logic
- Data logging of evaporation and condensing temperature and pressure (last 100 alarms)
- Smart key – download data logs to PC
- Send alarms by SMS
- Autotuning
- Self – diagnostics
- Automatic changeover
- Smart defrost
- Programming key

Devices controlled:

- Compressors
- Condenser fans
- Reverse cycle valves
- Water pumps or outlet fans (AIR – AIR)
- Anti – freeze heaters
- Alarm signalling device
- Electronic expansion valve
- Air damper (roof – top)

Options:

- RS485, LON, RS232 serial board for modem
- Programming key
- Fan speed controllers, both single – phase and three phase
- Driver for electronic expansion valves
- I/O expansion
- Ratiometric pressure probes

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