CIAT Control

pCO3

Programmable ***control unit***
Clear *language text*
Modbus/LON/Backnet
communication protocols

pCO_3 control unit

Carel pCO_3 is a programmable controller used on CIATRONIC precision air-handling units.
CIAT offers the software needed to adapt its programs to specific customer requirements.

Display interface

The following information is displayed in clear print on the **pCO_3** screen:

- ambient and return air temperature and humidity,
- faults,
- clock and external contact status,
- unit component status.

The following information are displayed by leds on the **pCO_3** interface:

- power on,
- fault appearance,
- operational unit.

The **pCO_3** interface keys:

- start or stop the unit,
- acknowledge faults,
- adjust set-points and unit parameters.

Operation control

The **pCO_3** controls the following functions:

- monitoring of temperature and relative humidity,
- energy savings using free-cooling or compensation,
- fan on/off or variable rotation speed control,
- one to two compressors or one chilled water bank,
- a hot water coil or 1 to 2 electrical heating stages.
- a humidifier,
- dehumidification.
- condenser fan.

Fault management

The **pCO_3** handles the following faults:

- temperature sensor, relative humidity, pressure,
- high and low pressure in two cooling circuits,
- filter fouling,
- air flow rate and thermal flow on discharge fan,
- electric heater element, humidifier,
- high ambient or discharge air temperatures and relative humidity,
- supply air fan, discharge fan counter limits, compressor, filter.

Rotation of units

When used with an external connection, the **pCO_3** can manage the automatic rotation of AHU cabinets.

Connection to BMSs

The pCO3 features a specific board for Modbus/Jbus/LON/Backnet communications.