

# ET 605.02

## Air conditioning controller



### Description

- industrial automation solution for ET 605
- PLC-based controller with comprehensive functions and graphical display

The air conditioning controller ET 605.02 is harmonised with the air conditioning system ET 605. It controls the temperature and humidity in the chamber. In addition there is a time program to define the periods of use, an energy selection circuit and a frost protection monitor.

The combined temperature and humidity sensors in ET 605 record the condition of the supply and exhaust air of the chamber. To compensate for the control deviation the controller controls the ventilation flaps, air heater and air cooler.

This automation solution is recommended if the training objective focuses on the exact familiarisation with an industrial air conditioning controller.

### Learning objectives/experiments

- familiarisation with and use of modern air conditioning controllers
  - ▶ exhaust air temperature cascade control, humidity control
  - ▶ start-up circuit
  - ▶ energy selection circuit (control of the ventilation flaps)
  - ▶ frost protection

### Specification

- [1] air conditioning controller with PLC technology
- [2] representation of the system schematic with the key process variables in the controller display
- [3] general I & C functions
- [4] automatic and manual operation possible
- [5] summer and winter operation, frost protection monitor
- [6] user-friendly design of the menu guidance; language freely selectable

### Technical data

PLC controller

- 20 universal inputs: 17 for analogue signals, 3 for binary signals
- 12 relay/binary outputs, 4 used
- 8 analogue outputs, 4 used

Continuous control

- ventilation flaps
- air heater
- air humidifier

2 point control

- air cooler
- fan

230V, 50Hz, 1 phase  
 230V, 60Hz, 1 phase  
 120V, 60Hz, 1 phase  
 UL/CSA optional  
 LxWxH: 280x230x110mm  
 Weight: approx. 3kg

### Scope of delivery

- 1 controller
- 1 set of cables
- 1 manual