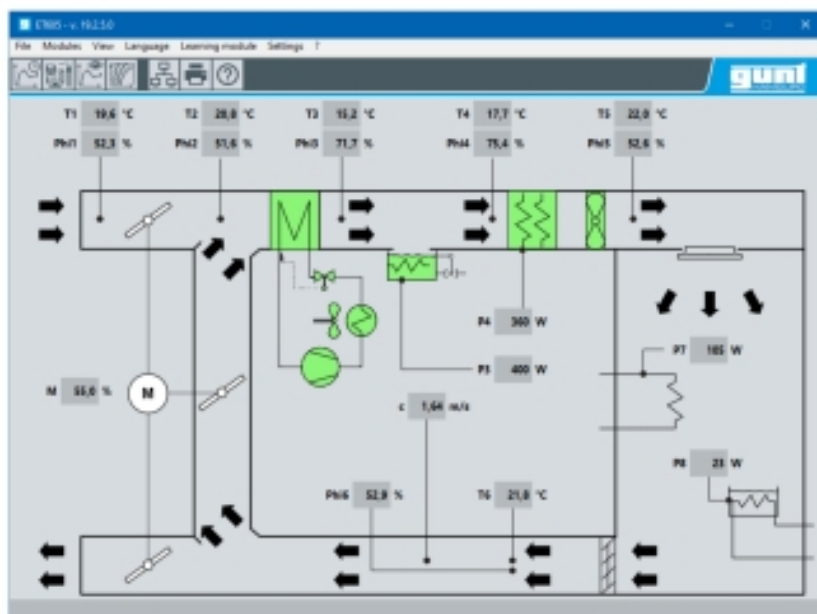


ET 605.01

Software controller with data acquisition



Description

- automation solution for ET 605 via software
- visualise, measure, control
- changes of state in the h-x diagram, time functions

The software includes data acquisition capability and an air conditioning controller enabling the automation of the air conditioning system ET 605. Via the controller components (e.g. air heater, flaps) are controlled to achieve preset temperatures and humidities in the climatic chamber.

All relevant measured values are recorded, analysed and displayed as time functions and in the h-x diagram.

The software features better display options than an industrial controller. Therefore this automation solution offers the greatest benefits for instruction purposes.

Learning objectives/experiments

- familiarisation with and use of the automation solution via software for the air conditioning system ET 605
- online representation of temperatures, humidities (relative and absolute), air velocity, heating capacity of the heat source (latent and sensitive), position of the ventilation flaps, operating phases of air cooler / air heater / fan / humidifier

Specification

- [1] menu-guided GUNT software
- [2] data acquisition and evaluation
- [3] control of an air conditioning system using a software controller
- [4] logger function
- [5] process schematic with online data representation
- [6] integrated h-x diagram with representation of the actual measured values
- [7] language freely selectable
- [8] GUNT software for data acquisition via USB under Windows 10

Technical data

Software basis: LabVIEW

LxWxH: 140x125x10mm

Weight: approx. 50g

Required for operation

PC with Windows

Scope of delivery

- 1 GUNT software + USB cable
- 1 manual with description of the software functions and their use

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Required accessories

ET 605 Air conditioning system model