testo

°C
%RH
td
g/kg
hPa
m/s
m³/h
ppm CO
ppm CO2
rpm
mA
V

testo 454

Measuring on site

Efficient on site measurements require a mobile instrument with enough measuring channels.

The control unit

The control unit is a portable and robust measuring instrument with a user defined probe socket and an integrated differential pressure probe.
Convenient measuring functions such as timed/multi-point mean calculations and measurement programs simplify the measuring task.
You can save up to 250,000 readings directly in the selected locations and then print them on location on the built-in printer.

Loggers

4 additional probe sockets are added with each clip-on logger attached to the control unit. Each logger provides 250,000 additional readings via the memory integrated in the logger.

Up to 20 loggers can be connected to the control unit yielding over 5 million readings!

Parameters

A wide range of probes are available for accurate measurement in a variety of applications:

- Temperature with surface, immersion, penetration, air or precision probes
- Humidity with ambient air conditions, duct and reference probes, material moisture probes and pressure dew point probes
- Velocity and volume flow with vanes, hot wire, hot bulb probes and Pitot tubes
- Indoor Air Quality using CO_2 probe and comfort level probe
- Pressure with differential/absolute/low/ high pressure probes
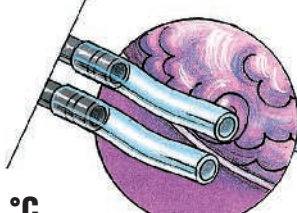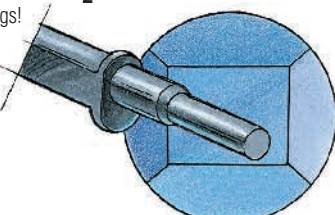- rpm
- Current, voltage
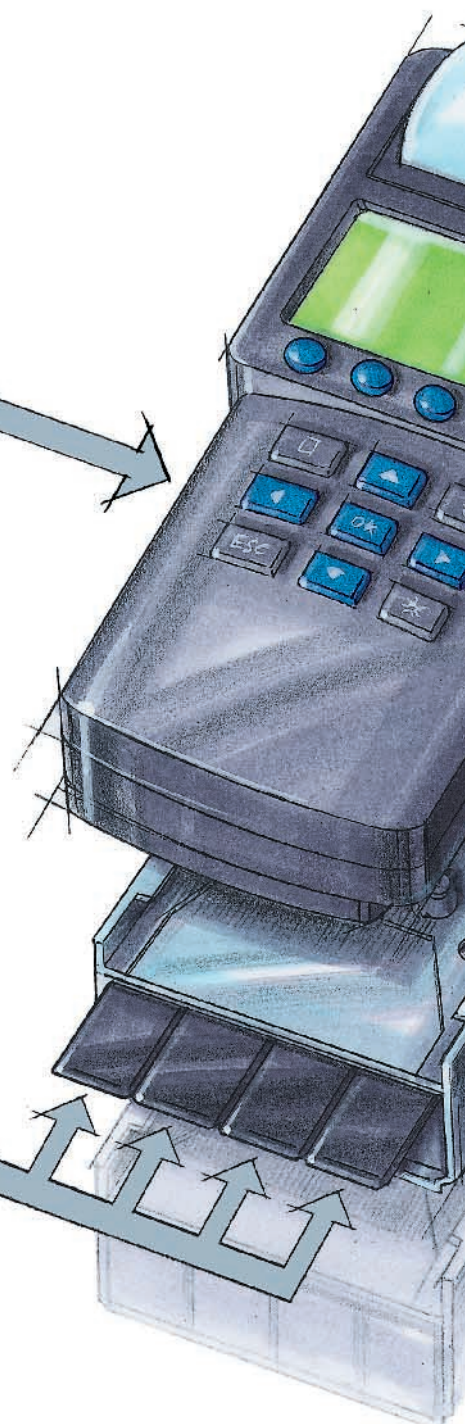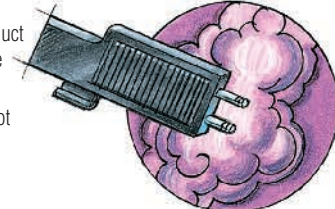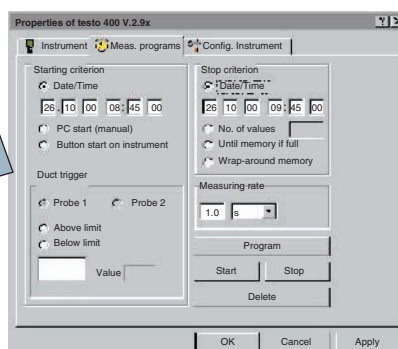
m/s, m³/h
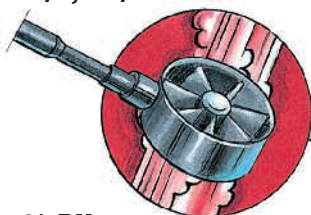
% RH
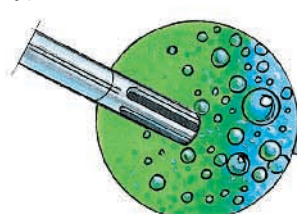
Δ P, Pa

°C

CO₂

Δ P, Pa

testo 454 measuring instrument

Tour plan

The tour plan enables efficient measurement on location. All of the planned locations on a tour are saved in the tour plan using Comsoft software and are transmitted to the measuring instrument. In this way, the duct cross-section or the required value for a location can be defined beforehand in your office. Definitions can, of course, be corrected or initialised using **testo 454**.

Defining measurement programs

Complex measurement tasks require structure. Comsoft software offers a wide range of possibilities for program start, measuring cycle and program finish. In this way, measurement programs can be started at a specified time, manually, by exceeding a value or via an external trigger signal. An easy-to-use user guide guarantees reliable logger operation.

Online measurement

In addition to displaying readings in diagrams, tables and histograms, display on a system graphic (e.g. flow diagram or system photo), produced by the user, is also an option for online measurement.
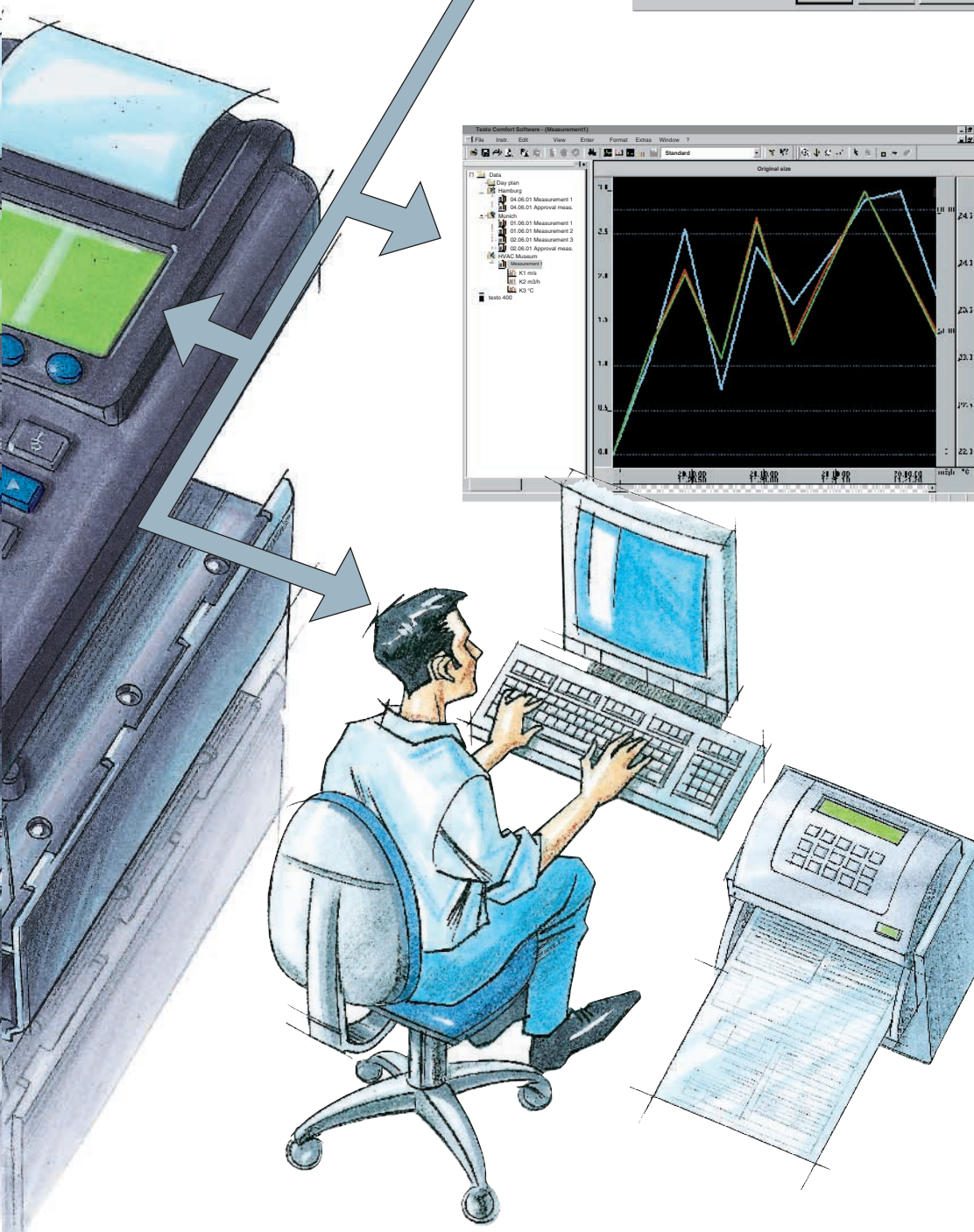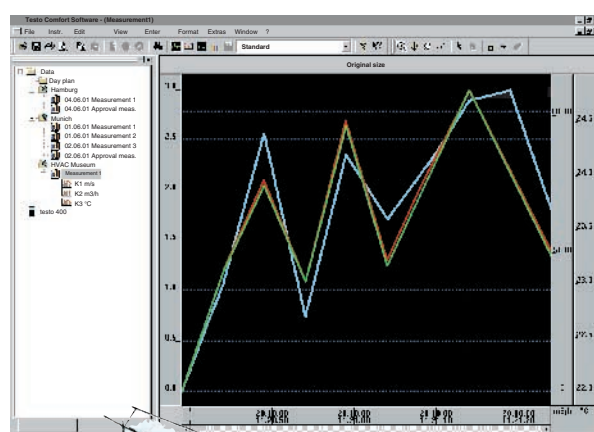
Data analysis

Data analysis is carried out using a wide range of display types and calculations such as mathematical smoothing, statistical functions, limit display.

Documentation

Protocols for the applications can be put together as required. Only important values should be documented.

Filing

The tree structure and directory and location set up process enable easy data management.

°C

%RH

td

g/kg

hPa

m/s

m³/h

ppm CO

ppm CO2

rpm

mA

V