**Software package APT-COM™ 3 DataControlSystem for Windows to network up to 30 units or controllers with the communication interface RS 232 or RS 422 for remote control, programming and data recording.**

## Versions of the APT-COM™ 3 DataControlSystem:

### APT-COM™ 3 BASIC Edition

- Connection of one BINDER simulation chamber or measuring device with interface RS 232 or RS 422 to a PC
- Graphical program editor for comfortable remote programming of one simulation chamber
- Graphic recording of the controlled process parameters temperature, pressure, humidity, $CO_2$ or $O_2$ concentration and time
- Documentation when exceeding an adjustable tolerance limit
- Documentation of all system interventions
- Manual output of measuring data in ASCII format to a printer or a spreadsheet file. Data of any period can be selected

### APT-COM™ 3 STANDARD Edition

All functions of BASIC Edition plus:

- Connection of up to 30 BINDER simulation chambers simultaneously
- Graphical program editor
- Documentation of measurements as HTML files, HTTP web server function for comfortable process control
- E-mail notification for limit over- / under run using Simple Mail Transfer Protocol (SMTP)
- Integration under LIMS with e.g. LabVIEW optional possible
- Programmable time based print function (daily, weekly, monthly)
- Manual print out in HTML and E-mail format
- Program operation also for constant value controllers RD2, R3

### APT-COM™ 3 GLP Edition

All functions of STANDARD Edition plus:

- Documentation of the measurement data, safe against manipulation and in accordance to GLP/GMP
- Compliant according FDA regulation 21 CFR Part 11 with respect to data safety and validation of overall system
- Full password protection of all user
- Transfer of remote alarm via E-mail (or/and telephone, optional)
- System overview (control room function) over all units via TCP/IP protocol
- Unlimited number of users with individual passwords
- Automatic data backup system (also on network drivers)

### Recommended system requirements:

- Windows 2000, XP
- 512 MB RAM
- CD-ROM drive
- one free PCI slot with own interrupt (for optional COM-port extension)
- at least one free COM port with free interrupt
- Intel Pentium 4 min. 2 GHz or similar AMD
- 100 MB free hard disk memory (for program without measuring data)
- Graphic card with 16 MB local RAM
- Network card 100 Mbit Ethernet
- Hard disk with 7200 rpm minimum
- Screen resolution 1024x786, setting True Color (32 bit)
- 19'' tube monitor or similar TFT screen

These system requirements are recommended when using all features of APT-COM™ 3 DataControlSystem GLP Edition. When using Editions Basic or Standard, lower system requirements may be sufficient. If the system characteristics are insufficient, processing speed of APT-COM 3 will remarkably decrease.

### Additional system requirements for system validation acc. to GLP/GMP:

- APT-COM 3 GLP-Edition
- Windows 2000 or XP Professional with actual Service Pack and actual Microsoft patches
- Intel Chipset
- Intel network card
- at least UDMA-66 hard disk with 7200 rpm or RAID1
- Intermission free power supply for all PC components, and the mains unit of the converter e.g. via special battery buffered power installation or buffer unit attached to the PC system (recommended).