

RC45 - the Flexible Workstation



RC Computer



The RC45 workstation is characterized by an elegant and ergonomic design.

RC45 - the new series of workstations from RC computer - is characterized by an ergonomic design, a flicker-free screen image and a flat keyboard including exactly the right number of function keys, specifically designed for easy use.

The idea behind RC45 is to make several different computer systems available to the user from one single workstation. Great importance has consequently been attached to communication facilities and adaptability as regards communication with other systems.

Multi-purpose terminal

Most terminals are designed for communication with one single computer system. This limitation does not apply to RC45, whose functions are determined by the emulator software used. In this way the RC45 can alternately function as an ANSI X3.64 terminal and an IBM 3270 terminal.

RC45 offers the possibility of simultaneous communication with an IBM 3270 application and a host with character-oriented communication, or simultaneous communication with two different IBM 3270 applications.

RC45 - Flexible and Modular



Good design extends to the back.

RC45 versions

RC45 comes in 5 different versions, each adapted to special user needs.

- **RC45 ANSI X3.64 terminal** featuring a V.24 interface for communication with RC8000 systems, RC39 systems and other host computers.
- **RC45 ANSI X3.64 terminal** featuring optional communication via the V.24 interface or the RcCircuit connection with the RC39 multi-user computer.
- **RC45 IBM 3270/Multi-terminal** capable of reading different emulator programs as required for ANSI X3.64 communication and/or IBM 3270 communication.
- **RC45 IBM 3270/ Display Terminal** for RC855-controlled IBM 3270 clusters.
- **RC45 IBM 3270 Stand Alone X.21 terminal** for communication via the DATEX network and RC Computer's own DATEX concentrator, the RC 3803.

Modular Design

The RC45 workstation consists of three components

- Screen
- Control Logic
- Keyboard

Screen and control logic come in various optional versions.

The modular design makes it possible to upgrade an RC45 model in line with the user's needs.

Screen

The RC45 family includes three screen versions

- 15" monochrome screen, 60 Hz, amber characters on a dark background
- 15" monochrome screen, 73 Hz, black characters on a white background
- 14" colour screen, 60 Hz

Control Logic

The functions of the RC45 workstation are either determined by the control logic placed in the screen base or in a separate unit. The control logic may be supplied with a standard emulator program, or designed for reading of emulator programs from the cluster control unit RC890 or the multi-user computer RC39.

Keyboard

The RC45 keyboard has been designed to take into account that the RC45 workstation will communicate with several types of host systems. 34 keys are doubleprogrammable so that no less than 68 character sequences may be stored in the workstation's battery maintained memory.

Peripherals

The RC45 workstation incorporates as standard a built-in adapter for connection of matrix, daisy wheel and laser printers.

Apart from this, an ID-card reader may be connected for IBM 3270 applications.



The flat, wheel-designed keyboard includes keys for adjustment of light intensity and contrast.

The Working Environment

Optimum interaction of the workstation and the background system is achieved by modifying the functionality of the workstation. Because of this the RC45 workstation supports precisely the functions that the host computer system offers the user, on the one hand, fast and flexible screen support, on the other hand by a single keystroke to activate the required functions. RC45 enables the user to have an effective dialogue with the host computer system and thereby to enhance the pleasure of work.

Applications

The RC45 workstation covers a wide range of applications, and may be used in conjunction with a local RC39 multi-user computer or a remote, central computer for applications such as:

- Word processing
- Data collection
- Inquiries
- Financial control
- Spread sheet applications

The RC45 workstation is used by

- Industry and Trade
- Service Trades
- Public Authorities

Ergonomics

Great importance has been attached to the design (materials, form, colour, etc.) and functionality of the RC45 workstation.

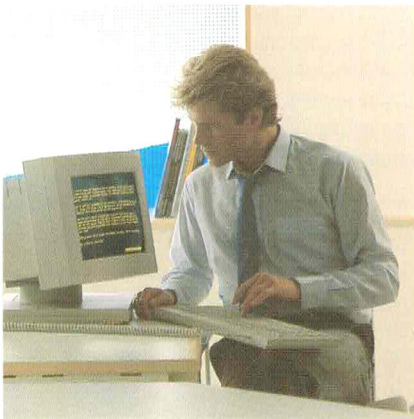
The anti-reflection screen may be tilted and swivelled and the wheel-designed keyboard includes keys for the adjustment of light intensity and contrast.

The RC45 workstation is completely noiseless, and the high refresh rate provides a stable and distinct text display, with excellent character presentation.

The keyboard - only 24 mm high - may be tilted (max. 15°) for operator comfort and the design of the keyboard renders a wrist-rest completely superfluous. The keyboard itself is noiseless, the user may however choose to have each keypress accompanied by an electronic click, the volume of which is adjustable.

The keys are placed in logically coherent groups, separated from each other for ease of use.

RC45 — High Utility Value



RC45 is a member of a product family undergoing constant development, however still providing the benefits of compatibility and upgrading capabilities.

This means that a terminal purchased as an ANSI X3.64 terminal can easily be converted into an IBM 3270 terminal or a multi-purpose terminal according to individual customer requirements.

Similarly, the RC890 control unit is easily expandable with several types of communication protocols.

This development of functions makes RC45 a high-quality and long life product.

RC890 controls the communication of up to 32 terminals and 32 printers with one or two host computers.

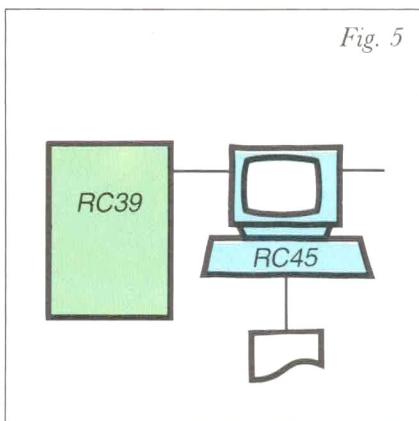
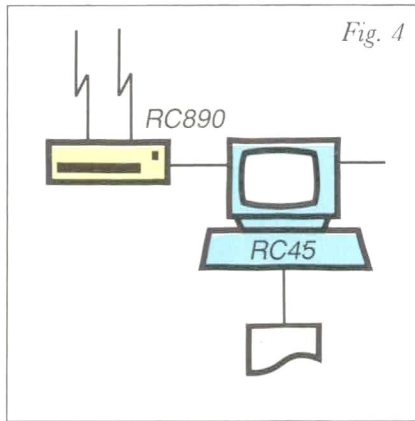
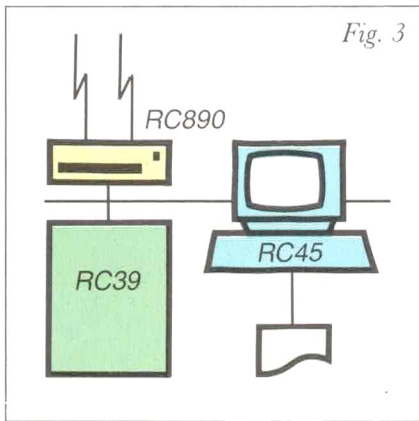
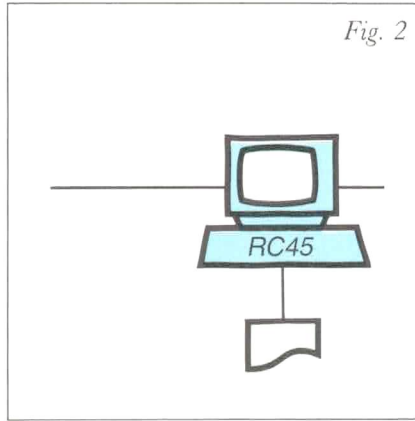
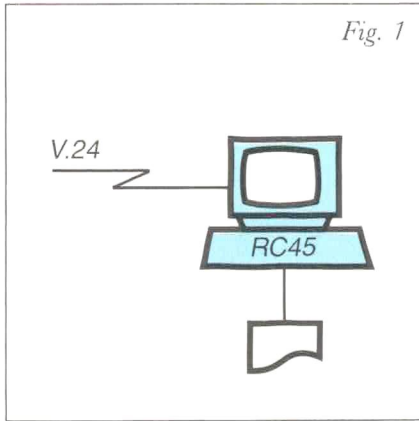


Figure 1. RC45 ANSI X3.64 terminal with V.24 communication.

Figure 2. RC45 ANSI X3.64 terminal with RcCircuit communication.

Figure 3. RC45 cluster with RC890 and RC39 featuring simultaneous communication with both.

Figure 4. Cluster with RC45 and RC890. The RC45 terminals communicate via the RC 890, but asynchronous communication via the RC45 V.24 port is also possible.

Figure 5. Cluster providing a simple RC45 and RC39 multi-user solution without communication.

Configurations

The modular design of the RC45 workstation as well as the possibility of reading emulator programs as required result in a wide variety of RC45 applications.

Each RC 45 workstation incorporates connection for V.24 communication, parallel printer, and RcCircuit communication. Each of the 32 terminals in an IBM 3270 cluster may thus have a printer connected. This also applies to all other RC45 configurations.

RC45 may be used as a stand alone terminal with V.24 asynchronous communication (ANSI X3.64 with a host computer, e.g. RC8000, RC39 or other host computers with the same form of communication.

The terminal network RcCircuit provides interactive communication between the RC45 and an office computer such as the RC39 multiuser computer and the RC890 cluster control unit (emulating IBM 3274 Control Unit).

RcCircuit

RC Computer has its own terminal network, RcCircuit, for interactive communication between workstations, the RC890 cluster control unit, and the RC39 multiuser computer. 32 terminals can be connected to the multi-dropped RcCircuit network.

Hierarchic Systems Architecture

RC890

The RC890 cluster control unit makes it possible for RcCircuit connected RC45 terminals to have one or two simultaneous sessions with an IBM host.

The RC890 incorporates V.24 and X.21 connections with either BSC or SNA/SDLC communication.

Apart from this, the RC890 offers the feature of simultaneous communication with two host computers, a feature which may of course be used by the RC45 workstation. The RC890 is also available in a version handling IBM 3270 communication for a number of RC750 Partner microcomputers (PC's). The connection is established via RC Computer's own local area network.

RC39

Apart from handling local execution of applications, the RC39 multi-user computer may also function as a communication control unit with IBM 3270 communication, either BSC or SNA/SDLC.

RC45 IBM 3270 Stand Alone

The RC45 workstation may additionally function as an independent, combined control unit and terminal, e.g. for communication via the public DATEX network.

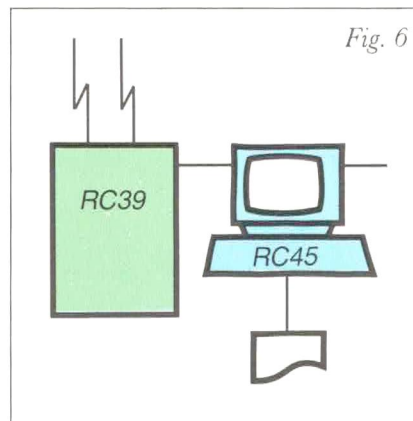


Figure 6. RC45 cluster with RC39 including communication control unit.

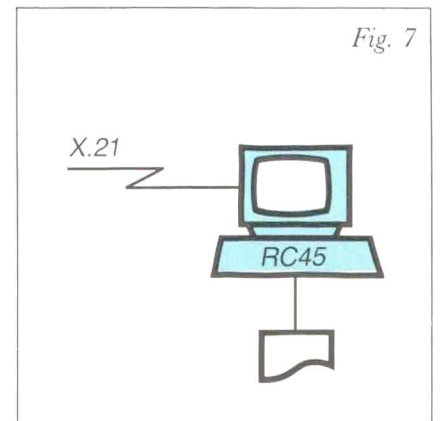


Figure 7. RC45 IBM 3270 Stand Alone X.21 terminal with built-in control unit.



The RC45 workstation gives access to a world of information.

RC Computer

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Contents are subject to alterations.