PHILIPS

Business Systems

Philips
Micro-Computer
P 2000

Here the Philips Micro-Computer P 2000 shows you how to work with it.

The visual display

Here you can see all the current data, text and work processes, and every input can be displayed first on the visual display, before it is printed. You can read, check, correct and edit on the visual display, guided by the Philips P 2000.
You can read stored data and bring it up-to-date. Or you can have the current statistics clearly presented in graphic form.
The visual display has 24 rows of 80 characters. You can tilt it, move it, and regulate its brightness. The green picture is easy on the eyes and nonreflective. In short, even the visual display of the Philips P 2000 is constructed according to the most modern ergonomic principles.

The Mini-Diskette drive

Here at your disposal are up to two mini-diskette slots. In the mini-diskette drive, mini-diskettes are read or data are stored on them. Changing diskettes is easy.

The Mini-Diskette

This will store up to 139.000 characters (approx. 70 pages). There is an index of contents on the diskette. If you are looking for a certain page, the Philips P 2000 will find it for you fast.
If you want to protect your valuable data from accidental erasure, the mini-diskette has a safety device for just this.

The Input/Output Module

This is for connecting the P 2000 with other devices. Several I/O modules will be available, allowing various possibilities, for example: control of production processes (IEC interface), asynchronous data communication (serial V 24 interface).

ROM-Key (program storage module)

You use them for changing programs. If you want to type a letter, you insert the appropriate ROM-Key "Word Processing" into the ROM-Key slot. If you want another program, just use another ROM-Key. ROM-Keys are sturdy and easy to use, and are kept in the cabinet when not needed. The ROM-Key has a maximum of 16 K-byte storage capacity and thus takes no capacity away from the user storage. The data stored in the ROM-Key is specially protected against erasure.

The slot for the Input/Output Module

Here's where you insert the input/output module.

The ROM-Key Slot

Here's where you insert the ROM-Key containing the program you want to use.

The Keyboard

You use the keyboard just like a typewriter to enter your text. It consists of an alpha-numeric key area and a numerical one like a calculator. The numerical key area facilitates rapid insertion of numerical characters.
The keys are arranged as in a conventional type-writer. Each key has an auto-matic repeat. An acoustic signal attracts your attention if you make an operation mistake.

Here the Philips Micro-Computer P 2000 is working for you.

The User Storage System

The Philips P 2000 storage system reminds you of what you have just entered, giving you time to think it through once more.
Do you want to change or perhaps extend your program. Do you want to rearrange the text? The Philips P 2000 makes it easy. The user storage in the original equipment has a generous 16.000 character (16 K-byte) capacity.

User Storage Capacity Extension

It's possible to increase storage if the user storage in the original equipment is not sufficient for you.
On request you can have it increased to a maximum of 48 K-bytes, a volume which only a few years ago was still restricted to large installations.
If you do not need this increased storage just yet, perhaps you will need it in the future. The Philips P 2000 will grow with your requirements.

Buffer Storage

Here the characters and the signals for the visual display are stored short-term and automatically passed on to the visual display. The capacity is approximately 4000 characters (4 K-bytes).

The Operating and Control System

Here is stored the operating system of the Philips P 2000. The operating system is protected from accidental erasure and has an approximately 4000 character (4 K-byte) capacity.
The input/output operations for the mini-cassette, the keyboard, the printer and the visual display are controlled from here.

The Microprocessor Z 80

The "brain" of the Philips P 2000, which calculates and gives writing and reading instructions.
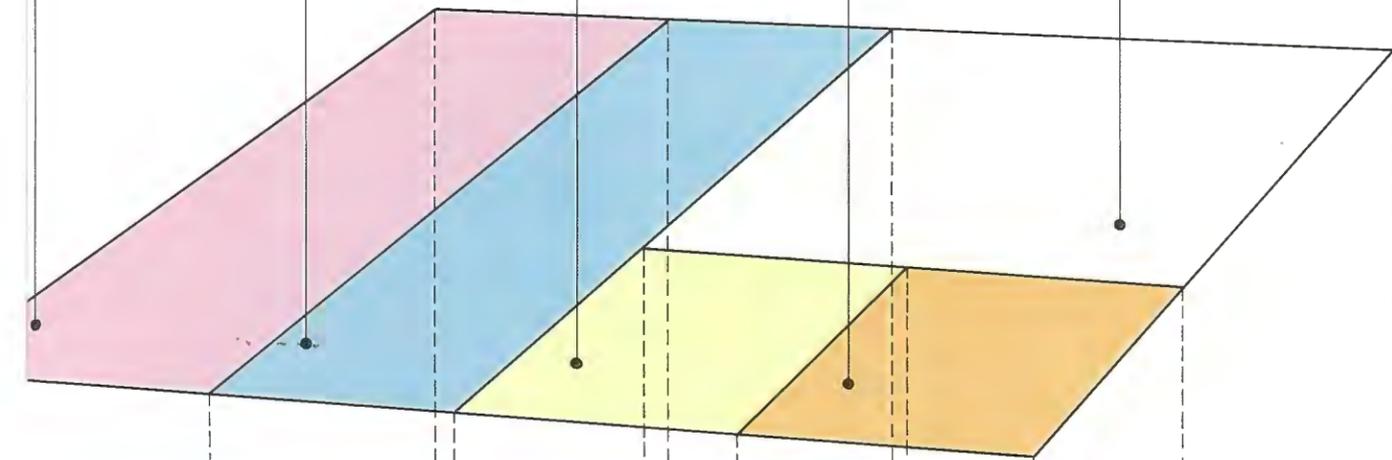
Here you are, working with the Philips Micro-Computer P 2000.

Here the Philips Micro-Computer P 2000 is printing black on white.

The Printers
They print black on white, far faster and more neatly than a typewriter.

The Matrix Printer
The matrix printer has two qualities of type. It has an extensive supply of characters and prints up to 80 characters a second.

The Daisy-Wheel Printer
If you use a daisy-wheel printer, you can choose from several types. The quality of type is like that of an electric typewriter. It types 25 characters a second.

The slot for the Mini-Cassette
For recording or reading mini-cassettes; it works just like your cassette recorder at home or your dictation machine.

The Function Keys
You use these to give the Philips P 2000 your commands. You can rearrange text, erase characters, or complete pages, have certain data recalled, have data stored on mini-cassettes or mini-diskettes, or have important information printed out for you.

The Mini-Cassette
This will store up to 39.000 characters per side and keep them as long as you like. When you do not need your data, simply put the cassette in the drawer. You can recall, correct or change stored texts or data at any time. The contents of the cassette can be protected from accidental erasure. The mini-cassette is extremely easy to use.

Here you will find the technical data about the Philips Micro-Computer P 2000 M.

Basic Device

Micro-Processor Z 80
Frequency: 2,5 MHz

Internal Storage
Total storage capacity 72 K-bytes
User storage max. 48 K-bytes RAM
Operating system 4 K-bytes ROM
Video memory 4 K-bytes RAM
ROM-Key max. 16 K-bytes ROM

Interfaces and control for:
printer (serial interfaces)
visual display unit
I/O module
ROM-Key
mini-diskette drive

Keyboard:
59 alphanum. and function keys
15 numerical keys
Function keys: control of peripherals special functions

Mini-Cassette drive:
High speed recording drive for Philips digital mini-cassettes

General data:
Input Voltage: 220/240 V ± 10%
Frequency: 49–51 Hz
Power Consumption: 52 VA at max. configuration
Dimensions: 424 mm x 470 mm x 112 mm
Weight: 5 kg
Certificates: VDE (0730 Part I/ Part II P) FTZ-C-074/80, ÖVE-EM 42

Monitor Unit

Visual display:
Cathode Ray Tube with phosphor P 31; green
Dimension: 12 inch, 24 x 80 characters
Character matrix 6 x 10 dots

Mini-Diskette-drives:
One or two 5¼ inch mini-diskette drives can be mounted in the monitor unit cabinet

General data:
Input voltage: 220/240 V ± 10%
Frequency: 49–51 Hz
Power consumption: 58 VA nominal 80 VA maximal
Dimensions: 530 mm x 350 mm x 290 mm
Weight: 14 kg

External Storage Media

Mini-Cassette:
Type: Philips digital mini-cassette (LDB4401)
Capacity: 39 K-bytes per side; two sides
Rewinding time: approx. 95 secs.
Data transfer rate: 6000 bps
Recording density: 300–500 bpi
Recording method: bit serial, phase encoding

Mini-Diskette:
Type: 5¼ inch mini-diskettes; Single-side recordable with double recording density
Capacity: formatted 139 K-bytes per diskette
Rotational speed: 300 revolutions/ minute
Average access time: 463 ms
Transfer rate: 250 K-bits/sec.

Printers

Daisy-Wheel-Printer:
Speed: 25 cps (characters/ second)
Forms: single sheets and continuous stationery
Form width: max. 15 inches
Number of copies: original + 2 copies
Format: max. 136 characters/ line at 10 cpi
max. 163 characters/ line at 12 cpi
max. 204 characters/ line at 15 cpi
Ribbon: cartridge
Printwheels: 96 characters, various types

Indicators and switches: Power ON/OFF switch, Top of form switch, Set page switch, Indicators for power, paper or ribbon out, On line (ready)
Special function: self test
Power requirements: 220/240 V, 50 Hz
Power consumption: 70 W
Dimensions: 625 mm x 380 mm x 258 mm
Weight: 19.5 kg

Matrix-Printer:
Speed: 80 cps or 40 cps (better typeface)
Characters: 9 x 9 dot matrix, 96 characters + special graphic characters
Print direction: bidirectional
Forms: continuous stationery
Form width: max. 10 inch incl. sprocket holes
Number of copies: original + 2 copies
Format: max. 80 characters/ line at 10 cpi
max. 132 characters/ line at 16.7 cpi
Indicators and switches: Power ON/OFF switch ON LINE switch line feed switch form feed switch indicators for power, paper out, on line (ready)
Special function: self test
Power requirements: 220/240 V, 50 Hz
Power consumption: 100 W
Dimensions: 374 mm x 309 mm x 107 mm
Weight: 4,5 kg

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