



SEVEN

1. Word processing system

Designed to:

- type
- correct
- revise
- lay-out
- store
- print
- typeset

^Seven is equipped with an alphanumeric keyboard of latest design allowing for high-speed typing, with limited risk of faults.

As the text is typed, it is displayed on the screen and can readily be changed, revised and laid out into the required arrangement, and even new information can be added before it is transmitted to the printer for printout.

Text can also be stored on a magnetic tape or on a Floppy Disk memory, from which it can be printed out directly, or after having been changed or corrected by means of the display and the keyboard.

Any number of "originals" can be produced in a short time. The perfect text editing machine. Lines can be displayed simultaneously and text can be fed backwards and forwards across the screen. ^Seven can also be used to feed and control a typesetting machine.

Example:

A secretary's valuable time is often wasted in erasing errors in the typing, rewriting complete letters and careful typing, to avoid mistakes at the end of the text.

Using ^Seven, the secretary can type the entire text at full speed and do all the corrections on the screen before she decides to

have the text printed out by a high speed printer.

By equipping office clerks with efficient tools, productivity in the office can be increased substantially, and the administrative expenses can be drastically reduced.

2. Data collection system

se^Sven eliminates one step in data collection.

From the prime data-producer, data can be fed directly into the computer system by means of se^Sven.

Card punching, tape punching, loading of tape, cassette or disc will not be needed with this new system.

Example:

An office clerk receives an order by telephone from a customer. In most cases he takes down all information in a draft which is rewritten before it is punched on card or tape and read into the computer system.

Using se^Sven, the clerk will call for the correct order format on the display screen.

He will then type the complete information as he receives it from the customer. At the end of the phone call, the information is entered in the computer system ready for processing.

A number of data collection subterminals can be connected to a se^Sven base unit which will collect store and even process information and if necessary transmit it in a batch to a big central computer, internal or external.

3. Terminal system

Batch terminal

Time sharing terminal

Internal terminal

Remote-batch terminal

Remote-batch terminals are playing an increasingly important role in modern DP installations. They provide the user with a simple means of benefiting from the economies resulting from access to the processing power of the large computers in use today. By providing block transmission of data which has been prepared off-line, batch terminals maximise the transmission efficiency. And the main processor's workload and input/output operations are efficiently organised. If a remote-batch terminal is to serve these ends, it must be flexible.

^Seven can be used as a programmable, remote-batch terminal. Software control of the terminal affords a greater flexibility than is possible through hardwiring or cumbersome patch boards. It has been programmed to interface with most main frame computers, emulating the manufacturer's equivalent terminal. These emulators are supplied as standard software, and can be loaded in minutes under operator control.

Most applications can be handled, and the program capability of the ^Seven also means that it can be used off-line for those listings, and media conversions jobs, that would otherwise take up valuable time of the main processor.

Time sharing terminal

Time sharing operation on large computers with immense processing power have been used for a number of years.

^Seven is the natural terminal for these operations with it's programmed function, keyboard, display screen for text and diagrams, and cassette or Floppy Disk memory.

Internal terminal

Inside the office area, terminals are required to communicate with the central computer.

Entering information from various activities, data collection, etc., as well as receiving information like stock-items, personnel data, production plan, etc.

^Seven is the terminal to be used both for in-house use and for remote communication by telephone line and modem.

Example:

Two way communication system to be used in manufacturing industries, distribution, hospitals, hotels, etc.

4. Office computer system

Designed for:

- EDP
- accounting
- stock-keeping
- invoicing
- personnel - salaries
 time
 overtime
 sick-leave

As ^Sseven is a programmable computer, it can be used for most administrative computer operations.

The available memory capacity will make ^Sseven the office computer for smaller companies, while in larger companies it will be the terminal from the office to a computer in a computer service company, for either on-line operation or batch operation.

Example:

By addressing the customer by his number, the system has all the relevant information about the customer, e.g. address, packing, delivery, transport, payment terms, credit, etc.

The operator only has to specify the goods ordered. The packing list, invoicing, etc. will then be taken care of, as well as updating of stock lists.

5. Programmable calculator system

During recent years, the calculator market has been flooded with new types of calculators, increasingly compact and complex, and steadily falling in price.

^Seven is well-suited for carrying out most of the calculations for which these programmable calculators are designed.

The combination of calculator and Time Sharing Terminal makes ^Seven the ideal machine for laboratories, universities, institutions, etc.

It can also be used to compile computer programs or convert from one code to another.

Example:

A program for a NC machine tool is made in a large computer in ASCII code but needs to be converted to EIA code before being used. ^Seven will easily carry out this conversion operation.

6. Process control system

Designed for:

- process control
- production control
- management information
- monitoring
- recording
- communication
- training

^Sseven can accept a number of analog and digital input and output signals connected for one-line control of an industrial process.

Data collection together with production planning enables ^Sseven to take care of production control of an entire plant or an appropriate part.

Management information must be correct, prompt, and condensed. ^Sseven will collect, condense and transmit such information.

Monitoring mechanical and electrical installations, environmental parameters, alarm signals, transactions etc. is coordinated with control.

7. Industrial programmable controller system

Seven is also the programming terminal for the next generation of solid state control equipment which has taken over in recent years from the old relay systems.

Programming over the display screen gives simple implementation of the program, at the same time as it gives a very flexible operation and will have all changes in the connection automatically recorded on the cassette or disc. All documentation after starting is easily made on the basis of this material.

The programming can be done direct from a circuit diagram without employing Boolean algebra.

This generation will take up less space, be more flexible and reliable and have a much lower price.

Technical dataBase Unit

Microprocessor

Memory 4 kB RAM (8 bit)

CRT Display for 16x80 digits

Alphanumeric keyboard

Control keys (defined and programmed functions)

One cassette deck ECMA 34 compatible

Power supply

Connection to an external data bus.

Option

Internal memory up to 16 kB (8 bit)

External Mos memory 48 kB (8 bit) direct address

Cassette deck (second internal deck)

Disc

Floppy Disc

IBM compatible

External Data bus for peripherals

Power supply from base unit to external interface

Peripherals

Printer: 10 digits/s to 1150 lines/min

Tape punch 10 - 150 digits/s

Paper tape reader 10 - 1000 digits/s

Card reader 400 cards/min

Card punch

Interval clock

External terminal units loop connected (max 10)

Data collection units (max 255 external stations)

Modem synchronous and asynchronous 50 - 9600 baud

Interface for process signals in and out

Program language

Assembler

Basic

Standard program

COS Cassette operation system
FOS Floppy Disc operation system
DOS Disc operation system
GES General editor system
ASS Assembler system
BAS Basic system
ARS Arithmetic routine system
RES Remote entry system
TSS Time sharing system
CCS Cross compiler system

Special features

- Program TRACE Function enables study of 16 steps of the program on display. Program steps can be fed forwards.

Address, program step content, flag and simple change of program.

- DISPLAY SCREEN control is of a new design and enables a rapid display of information (80x16 digits) at a very low price.
- Text on the screen can be fed forwards and backwards with 16 lines displayed simultaneously.
- Floppy Discs IBM Compatible.
- Function keys for rapid program changing or feeding constants into the system.

Typical Competitors

1. Word processing system

Datapoint 2200
IBM MC - 82
IBM 82 M
Scribona 100
Savin 900 Word Master
Linolex
F 502 FEM
Nashua MS 150

2. Data collection system

Datapoint 2200
Facit Addo M-System

3. Terminal system

Datapoint 2200
DCT - 132
IBM 2790
INCOTERM
Alfaskop
Mini - TEC
TDV 220 Video Display Unit
Facit 640 Display Terminal
GT 40 DEC

4. Office computer system

Datapoint 2200
Nixdorf
Olivetti
Philips
Burroughs

5. Programmable calculator system

Datapoint 2200

HP

Wang

6. Process control system

PDP 11

IBM System 7

Delta 2000

ASEA Fjärrskrivare

7. Industrial programmable controller system

PDP 14/L

IPC 4000

SC4 007

ASEA Promatic

The main competitor is Datapoint 2200 made by Computer Terminal Corporation, USA. This unit has been on the market for about four years and some 6000 units have been sold, of which 300 in Sweden.

Datapoint 2200 has been a success and has opened a market for a new generation of decentralized computers. Many new brands will follow, but ^Sseven will take an economical and technological lead, and based on aggressive marketing, will reach most of the potential markets inside and outside of Sweden.

^Sseven will be the new weapon to fight the computer giants like IBM, Honeywell-Bull, CDC etc.