A Unique New Invention that will change the way you work

If you've ever thought how much more convenient and simple your life could be with a full-feature microcomputer — but have always been deterred by the size, complexity and cost of conventional systems, then it's time you discovered the PSION ORGANISER: the world's first practical pocket computer!

The PSION ORGANISER is a versatile and innovative personal computing resource incorporating hybrid microprocessor technology more advanced than that found in systems twenty times the price. And the entire system — including screen, keyboard, mass storage and software is compact enough to hold in the palm of your hand and carry around in your pocket. The photograph on the front cover of this brochure is actual size.

Packed with exclusive features:
Built in database system allows instant access to programs and information.
Off-the-shelf software library provides a mass of powerful programs and data.
Simple operating procedures make the ORGANISER incredibly easy to use.
The purpose designed POPL programming language enables you to write and save your own programs.
Communicate with other computers, modems, printers and peripherals through the industry standard RS232 interface.

TIME AND DATE
Automatically displayed when you switch on.

EDITABLE CALCULATOR
Function allows you to carry out complex calculations involving up to 200 characters with two levels of brackets. You can also edit both data and formula after completing a calculation to carry out "what-if" analyses. A special utility pack extends the power of the calculator even further with an extensive range of additional maths and science functions.

PERMANENT SAFE STORAGE
Of information in removable datapaks using the "SAVE" command.

ORGANISER RUNS OFF STANDARD PP3 9V BATTERY
Auto switch off after five minutes and low power CMOS components give up to six months life in normal use.

PRICE LIST
TECHNICAL INFORMATION
COMMUNICATIONS
PERSONAL PROGRAMMING
SOFTWARE LIBRARY
A PERSONAL DATABASE

THREE WAYS TO PRACTICAL POCKET-COMPUTING!

AS YOUR OWN PRIVATE DATABASE...
Use the PSION ORGANISER to store information at will and retrieve it instantly — keeping vital day-to-day records safely and securely.

WITH READY-TO-RUN SOFTWARE...
The PSION ORGANISER offers you a comprehensive — and constantly-expanding — library of purpose-written software packages for instant problem solving. Just plug in the program pack of your choice and you're ready to go.

AS A CUSTOMISED SYSTEM TO RUN YOUR OWN PROGRAMS...
The PSION ORGANISER is so advanced it even has its own programming language — POPL — which is as easy to learn as it is to use.

- 16 CHARACTER ALPHA NUMERIC DISPLAY
  with full scrolling over each record up to 200 characters long.

- ADJUSTABLE CONTRAST CONTROL.

- UNIQUE TWIN 'SOLID STATE DRIVES' Allow open ended use of plug-in software and data. The range of information, program and peripheral packs that can be slotted into the drives is enormous.

- ACCESS INFORMATION IN MILLISECONDS.

- EASY TO USE, POSITIVE TOUCH KEYBOARD.

- BRITISH DESIGNED and built to the highest standards with gold plated contact points and a tough protective sliding case for rugged reliable use.
(Actual size of ORGANISER when closed)

PSION

22 Dorset Square,
London NW1 6QG.
Tel: 01-200 0200 anytime
PSION ORGANISER

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PSION ORGANISER WITH 8k DATAPAK £99.95

SCIENCE PACK £29.95

MATHS PACK £29.95

FINANCE PACK £29.95

LINK-UP COMMUNICATIONS PACK £39.95

16k DATAPAK £19.95

8k DATAPAK £12.95

FORMATTING SERVICE £44.95

SPARE DATAPAK LABELS (30) £2.40

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 FORMATTING SERVICE see other side for details

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DEALER STAMP

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Although datapaks permanently and securely store information it is possible to clear and re-use an entire datapak using a machine called the PSION FORMATTER (£44.95).

This facility is also available by post at £3.50 (incl. P&P) for each datapak, whether 8k or 16k. Your datapak will be dispatched by Recorded Delivery within 48 hours of receipt, with a guaranteed capacity of either 8k or 16k, for the storage and retrieval of new information.

Before using this service, please ensure that all the information you wish to retain is transferred to another datapak.

Please complete this form and send it with your datapak(s) in suitably protective packaging to PSION LTD, 22 DORSET SQUARE, LONDON NW1.

YOUR ORGANISER DEALER MAY PROVIDE THIS SERVICE. PLEASE ENQUIRE.

Please format the enclosed datapak(s). I understand and agree that all the information held in the datapak(s) will be permanently and irrevocably lost.

I enclose:

QUANTITY

☐ 8k datapaks ☐ 16k datapaks

Payment of £_________ (£3.50 incl. P&P for each datapak)

Tick one:

☐ I enclose my cheque/postal order made payable to PSION LTD

☐ Please debit my credit card:

☐ ACCESS

☐ BARCLAYCARD/VISA

☐ AMERICAN EXPRESS

☐ DINERS CLUB

Card Number: ____________________________

Signature: ____________________________ Date:____________________

Name: ____________________________

Address: ____________________________

We can accept no responsibility for goods damaged in transit to Psion.
**TECHNICAL INFORMATION**

**ORGANISER**

Dimensions (with protective case closed)
- Length 142.0 mm
- Width 78.0 mm
- Depth 29.3 mm

Weight (without battery) 225 grams

Power Consumption (Milliwatts at 9V)
- Organiser Off 0.2
- On 40.0
- Datapak access (during ‘SAVE’ or ‘FIND’)
- One datapak 500.0
- Two 800.0

Display
- Sixteen character alpha-numeric (dot-matrix)
- Liquid crystal.

Keyboard 36 keys comprising:
- Control: ON/CLEAR; MODE/HOME; FIND; SAVE; EXECUTE
- Editing: SHIFT; DELETE; SPACE; ‘and’.
- Character: A to Z; 0 to 9; arithmetical symbols and punctuation.
- Significance selected with SHIFT.

Microprocessor
- MD6301X eight-bit CMOS microprocessor chip with 0.9216 MHz clock (3.6864 MHz crystal frequency source), 2 Timers, serial interface, 531/O lines, 80 pin LSI.

Memory
- Total 14k with one datapak
- Rom 4k (internal to microprocessor)
- RAM 2k
- EPROM 8k (datapak)
- Clock CMOS real time clock with 32768 Hz crystal frequency source.

**DATAPAKS**

Capacity 8k 16k
- 10,000 21,800 Characters of packed data

‘FIND’ times
- Average (sec) 2.5 5 (with full datapak)
- Maximum (sec) 5 10

‘SAVE’ time 4-8 characters per second, according to battery age

Data Retention 50 years at temperatures up to 100°C (MTTF)

Storage
- Medium EPROM (Eraseable programmable read only memory)
- Formatting 30 minutes in PSION FORMATTER prepares datapak for re-use
- Life Can be formatted up to 100 times
- Dimensions Length 53 mm
- Width 26 mm
- Depth 13 mm
- Weight 20 grams

**PROGRAM PACKS**

Contents 16k of facts, formulae and procedures for specialist applications.
- Programming language.

Storage
- Medium ROM
- Dimension
- and Weight As for datapaks

**FORMATTER**

Operation Formats 1 or 2 datapaks in 30 mins.
- (auto-timer control)

Dimensions
- Length 190 mm
- Width 95 mm
- Depth 65 mm

Weight 975 grams

Voltage 220-240 ac

Power Consumption 6 watts

Psion is dedicated to the continuous development of the ORGANISER as a practical, innovative and versatile computing resource for the personal and professional user.

Over the next few months we will be introducing a number of new software and peripheral packs designed for a wide variety of applications including database management, data logging and analysis and an expanding range of customised data bases.

In addition to the creation of further software packs to increase the usefulness of the ORGANISER for the general user, a special PSION development team undertakes in-depth analyses to investigate the requirements of particular user groups. Specialist packs are currently planned for such widely differing markets as hospital doctors, general practitioners, pharmacists, farmers, teachers, meter readers, warehouse staff, stockbrokers and pilots.

Combined with the facility to interface with a wide range of other computers and peripherals through the LINK-UP Communications pack the opportunities for using the ORGANISER become almost limitless.

If you have any particular expertise or requirements which you believe could be addressed by the ORGANISER, we would be very pleased to hear from you. For further information please write to PSION SUPPORT, 22 Dorset Square, London NW1 6QG.

For full Technical Information on the PSION ORGANISER, see the reverse of this card.
The PSION ORGANISER can be linked to a wide range of printers and other computers with the simple to use industry standard LINK-UP pack. It enables the ORGANISER to:

- Send records and files stored in datapaks to other computers.
- Print out records and programs from datapaks.
- Receive and store information from other computers in datapaks.

The benefits are enormous and greatly extend the power of the ORGANISER as a versatile and portable database. Two way communication with other computers enables the ORGANISER to act as a remote terminal and data collection device for a central database, and to receive and use such information with speed and versatility.

The LINK-UP pack is fully integrated with the database system of the ORGANISER and allows automatic selection of records for transmission to computer or printer.

Connected to a printer, programs and information stored on datapaks can be listed, checked and changed using the ORGANISER's compact alphanumeric keyboard.

The LINK-UP pack consists of two units, the connector pack, which looks like a datapak and has a multicoloured ribbon lead emerging from it, and the software pack.

The software pack contains the programs which control the flow of information to and from the ORGANISER. Once the programs have been set, the software pack is replaced by a datapak to transmit or receive information through the connector pack.

The LINK-UP pack conforms to the widely used RS232 and RS423 standards, found in almost all home and desk top micros and serial printers.

The manual explains in detail how to use the software pack to set the ORGANISER to communicate with compatible machines including the Sinclair QL, BBC Model B, IBM PC and ACT Apricot computers and the EPSOM FX80 with serial interface card.

The two metre ribbon cable terminates in a standard 25 pin D type socket which can be plugged directly into an IBM PC. Other computers and printers may require an additional adaptor which you do not already have one, can be purchased from your computer dealer. Full details are provided in the manual.

**TECHNICAL INFORMATION**

Inserting the SOFTWARE PACK and CONNECTOR PACK in the solid state drives provides two new MODE commands: SETUP and RESET.

SETUP provides the following communication parameters and default settings using the ↑ and ↓ keys:

<table>
<thead>
<tr>
<th>BAUD</th>
<th>9600</th>
<th>EOL</th>
<th>CRLF</th>
</tr>
</thead>
<tbody>
<tr>
<td>PARITY</td>
<td>NONE</td>
<td>EOF</td>
<td>1A</td>
</tr>
<tr>
<td>BITS</td>
<td>8</td>
<td>TRAN A</td>
<td>NONE</td>
</tr>
<tr>
<td>STOP (BITS)</td>
<td>1</td>
<td>TRAN B</td>
<td>NONE</td>
</tr>
<tr>
<td>HAND (SHAKING)</td>
<td>NONE</td>
<td>EXIT</td>
<td>NO SAVE</td>
</tr>
</tbody>
</table>

and are arranged in a continuous loop. Using the « and » keys, new parameters can be set, depending on the requirements of the 'target' computer or printer:

| BAUD: | 150, 300, 600, 1200, 2400, 4800, 9600 |
| PARITY: | ODD, EVEN, MARK, SPACE, NONE |
| BITS: | 7, 8 |
| STOP BITS: | 1, 2 |
| HAND SHAKING: | RTS/CTS, XON/XOFF, NONE |
| EOL: | CR, LF, FF, or user defined |
| EOF: | CR, LF, FF or user defined |
| TRAN A: | CR, LF, FF or user defined |
| TRAN B: | character substitution |
| EXIT: | NO, SAVE, SAVE |

**SEND AND RECEIVE COMMANDS**

<table>
<thead>
<tr>
<th>SEND</th>
<th>SEND L</th>
<th>Send Line</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEND F</td>
<td>Send File</td>
<td></td>
</tr>
<tr>
<td>SEND P</td>
<td>Send Program</td>
<td></td>
</tr>
<tr>
<td>REC</td>
<td>REC L</td>
<td>Receive Line</td>
</tr>
<tr>
<td>REC F</td>
<td>Receive File</td>
<td></td>
</tr>
</tbody>
</table>
PERSONAL PROGRAMMING

POPL – A POWERFUL AID TO PERSONAL POCKET COMPUTING

POPL – (PSION ORGANISER Programming Language) has been purpose designed for the organiser, and enables you to write, store and run your own programs.

With POPL you can customise the PSION ORGANISER to exactly match your own requirements — whether you simply need to store basic and repetitive calculations for day to day application or need to create a sophisticated program for later use.

Contained within the Finance, Maths and Science packs, POPL is built around a set of simple commands such as IN, OUT and GOTO and has a versatile line Editor.

POPL is a modular programming language, based on procedures which can be combined and cross referenced. Even the most complex and ambitious tasks can be split down into a series of discrete and manageable elements. This approach is highly flexible and enables you to write complex programs easily and quickly.

CREATE PROGRAMS AS INDIVIDUAL AS YOUR PROBLEMS.

When any of the three program packs is plugged into the ORGANISER the MODE key provides options additional to those found in the base machine:

CAT  Lists all programs and procedures held in the program pack and datapak, if there is one plugged into the other 'Solid-state drive'.

RUN  Either a ready written program or one of your own stored in a datapak.

PROG  Programming language.

COPY  Transfer information from one datapak to another.

When the Programming Language option is selected a further range of facilities specific to POPL are available.

EDIT:  For writing and editing procedures.

INSRT:  Inserts a program line.

QUIT:  Discards your current procedure.

EXIT:  Takes you out of PROG and carries the procedure into RUN.

SAVE:  Copies an edited procedure into datapak for permanent retention and access.

ERASE:  Erases a procedure from a datapak.

The comprehensive manual included with each program pack contains an extensive description of POPL and advice on its use. Sections include:

Variables: INput, OUTput and Assignment.

GOTO, Branching and Labels. Conditions: IF,
AND, OR and NOT. Looping and Iteration.

Globals and Arrays, STORE and RECALL.

Calling procedures. Parameters and Error messages.
SOFTWARE LIBRARY

However simple or complex your computing requirements – the PSION ORGANISER can meet them – at work or in the home – with a range of ready-written software that you just plug in and run. Each program pack also contains an extended range of mathematical and scientific functions and POPL – the PSION ORGANISER Programming Language. Three packages are already available and more are on the way soon:

FINANCE

MORTGAGE: Monthly repayments
CASH FLOW: Net present value
INVESTMENT: Internal rate of return
Bond redemption yield
Equity price to earnings ratio estimates

COMPOUND INTEREST: Mortgage
Value
Capital
Duration

DEPRECIATION: Straight Line
Reducing Balance
Lifetime Estimate

BONDS AND EQUITIES: Bond redemption yield P/E estimate: Whitbeck-Kisor model.

SCIENCE

Physical Constants – Planck, electron mass, electron charge, Rydberg, Gravitation, Avogadro, speed of light, sound. Gas constant, permeability, permittivity, earth radius, Bohr radius, Astronomic unit, etc.
Conversion Factors – UK to MKS etc.
Formulae – LC circuit, Lenses, Bohr energy levels, Larmor, plasma, etc.
Integration Under a Curve
Least Square Fit
Solution of Polynomial Equations

SOFTWARE LIBRARY

MATHEMATICS

Valuable for the mathematician, the student and scientist – with a comprehensive range of facilities:
- functions
- solutions to equations
- eigenvalues
- integration under a curve
- curve-fitting least squares
- statistics mean
- standard deviation
- chi-squared

UTILITY PACK

Further increases the power of the PSION ORGANISER’S calculator functions with a powerful range of additional mathematical and scientific functions.
- log, ALOG, LN, SQRT, EXP, SIN, COS, TAN, ATN, ABS, INT, DEG, RAD, MOD, MIN, MAX, FAC, SGN, ROUND, MEAN, STDEV, PI, RND, RAND, ENG, FIX, POWER FUNCTION AND COPY.
A PERSONAL DATABASE

Imagine the convenience of having a filing system and secretary in your pocket. With the PSION ORGANISER you can forget about diaries, notebooks and the backs of old envelopes. All you have to do is type in your information in ANY order or sequence and file it away at the touch of a button. For instant retrieval use the FIND command, type in a few characters which match ANY part of your original entry and all the information will be displayed.

Editing and amending a record is just as simple and you can scroll through an entire entry up to 200 characters long using the cursor keys. Even if the battery is accidently disconnected, your database stays intact because it's permanently stored in a choice of 8k or 16k datapaks.

The 8k datapak holds 11,000 characters and the 16k 22,000. So with two 16k datapaks you can store information equivalent to 1,000 names and addresses and recall them with a few keystrokes. As both datapaks can be removed and replaced at will, you can build an infinitely large personal database which you can access in a few seconds.

You can use the ORGANISER to store all the vital day-to-day information you need:

- Names and Addresses
- Price Lists and Schedules
- Important dates and Expense details
- Restaurants and Timetables
- Customer and Survey information
- supplier records and Statistics
- Exchange rates and Experimental data
- Personal Reminders

and there are dozens of other examples. The potential for the ORGANISER is as wide as your imagination!

Although datapaks permanently and securely store information, it is possible to clear and re-use an entire datapak using a process called formatting, a service which is available by post or through using a PSION FORMATTER.

Further details are provided on the ORDER FORM.