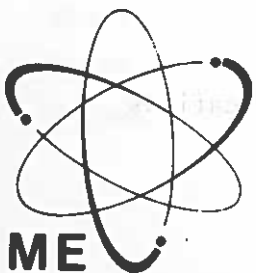
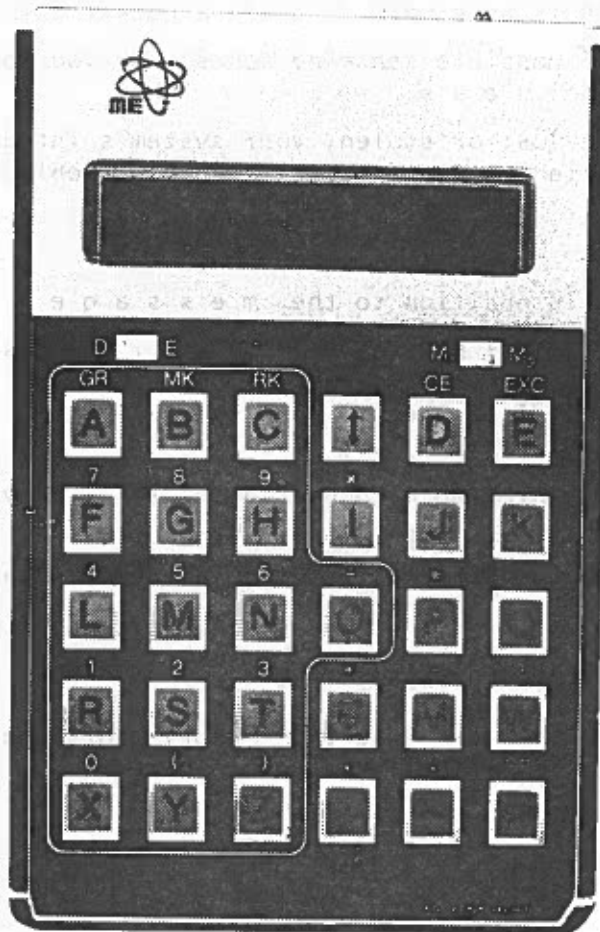


Private Cipher Machine PCCM 4000



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The private cipher machine PCCM 4000 permits you to set up instantaneous highly secure point-to-point communication anytime, anywhere

- without any complicated special organizational requirements
- using any conventional communication media available (messenger, telex, telephone)
- protecting your message all the way to the ultimate addressee

Operation

Operating your PCCM 4000 is as simple as using a pocket calculator.

Agree on one out of 10^{30} possible starting codes with your addressee and you are in business.

Should your PCCM 4000 be lost or stolen, your system's integrity remains intact. The security is in the usage of the crypto variables and not in the machine.

Those variables include in addition to the message key:

Your personal random initialization assuring different cryptograms for each message (i.e. often used phrases, such as addressee, never produce identical ciphers).

Customer programmable system key EPROM: "personality module" guaranteeing each user absolute privacy, making selective group calls feasible.

Field tested "operating-understress" features include failsafe "instant interrupt" and "error correcting" capability.

EPROM (Electrically Programmable Read Only Memory) Software and programming devices are offered as part of the support package.

Summary of features

High security

- more than 10^{30} different code combinations
- two independent secret key settings plus personal random initialization
- non-linear cipher algorithm
- two built-in cipher algorithms

State of the art technology

- single chip microprocessor
- all solid state configuration
- EPROM system key individually programmable to customer's specifications
- low battery power consumption (endurance 7+ hours)
- operates also with standard AA size batteries
- liquid crystal display (LCD)
- maintenance free operation

High reliability

- minimum use of individual components due to microprocessor operation
- extensive postproduction testing to insure 100% unit function

Operational simplicity

- built-in step-by-step operator's guidance shown on liquid crystal display
- keyboard with full "tactile feedback"
- operation interrupt feature
- error correcting capability
- alphanumeric keyboard including space and high usage punctuation and symbols
- non ambiguous 16 letter cipher alphabet

Technical parameters

Electrical

Construction:	Fully solid state, single chip microprocessor
Display:	5 character alphanumeric 16 segment liquid crystal (LCD), plus 6 operator guidance instructions
Power supply:	Integral three AA size rechargeable nickel cadmium batteries with buffered 220/110 V AC operation
Operation time:	Replaceable AA size alkaline cells may be used if required Minimum of 7 hours of standard use (at 20° C ambient)

Environment

Operating temperature:	0° C to + 50° C
Storage temperature	- 20° C to +70° C
Humidity:	98% relative humidity (non-condensing)

Dimensions

Length:	157.5 mm
Width:	98.0 mm
Depth:	26.7 mm
Weight:	330 grams