

INSTRUCTION MANUAL

Display: Two-line display

Upper line : 12 characters at 5×7 dot matrix.

Bottom line : 12 digits at 8 segments.

Mode: There are several main functions given below:

(1) CALCULATOR (CAL) mode: 10 digit plus arithmetic operation with 3 memory keys.

(2) TELEPHONE (TEL) mode:

Data is arranged in alphabetical order for the search facility to operate effectively, with maximum 36 characters' storage on the upper line and 36 digits holding room separately on the bottom line for each data entry.

(3) SCHEDULE (SCHD) mode:

Schedule messages are stored on the upper line, and the bottom line in response to the scheduled time.

(4) MEMO mode:

Data is arranged in alphabetical sequence for the search facility to operate effectively, with maximum 36 characters' storage on the upper line and 36 digits holding room separately on the bottom line for each data entry.

(5) H. TIME/W. TIME mode:

a) Home time:

A key to set up the time of localized city, as well as to set up home city.

b) World time:

A time zone indication among 30 major cities worldwide.

(6) Password:

A password not more than 6 characters can be set to keep stored data in secret.

(7) Auto power off:

A built-in timer to automatically shut power off after seven minutes of no key stroke.

- (8) Memory capacity: 2303 bytes
 Occupancy of activating code: 2 bytes.
 Occupancy of each character: 1 byte.
 Occupancy of each digit: 0.5 byte.

Operation procedure

1. TEL Mode

An illustration of how to operate TEL mode

e.g. JOHN SMITH

TEL NO.: 012-345678
 FAX NO.: 012-345679

KEY IN	DISPLAY
Press TEL to select TEL mode	TEL? SPC 2303 TEL

Press J O H N S P A C E S M I T H E N T E R	JOHN SMITH - TEL
Entry of TEL NO.: 012 - 345678 S P A C E	JOHN SMITH 012-345678 TEL
Entry of FAX NO.: F 012 - 345679	JOHN SMITH ◀ F012-345679 TEL
Press E N T E R , and in a few seconds the data will be fed into memory with display retraced to initial view.	TEL? SPC 2280 TEL

* CHR is a key to shift a variety of symbols in order of:

→ → # → \$ → £ → ¥ → (→) → → → ← → :

Data search on TEL mode

1. Sequential search

Press ∇ or \triangle to have a sequential search in alphabetic order of "A→Z" or "Z→A".

2. Direct search:

1) Input the searched prefix or word cluster less than 8 characters, then press ∇ or \triangle to have a quick find of wanted data.

2) For incorrect prefix or word cluster punched, "NOT FOUND!" will prompt on the display.

3. Data Edit/Deletion

1) Edit:

a) Locate the data for revision by pressing ∇ or \triangle key

b) Use **[SHIFT]** and **[INS]** or **[DEL]** key to move cursor to the position intended for a revision.

c) Press **[SHIFT]** **[INS]** or **[SHIFT]** **[DEL]** to insert or delete words.

d) After a modification without error, press **[ENTER]** to store modified data in memory.

2) Deletion: a) Locate the data for deletion by pressing ∇ or \triangle key.

b) Punch **[SHIFT]** **[CE/C]** key to have "DELETE?" appear on the display.

c) Press **[ENTER]** key to have "DELETE!" on view, which confirms data deleted.

d) For an improper touch of **[CE/C]** key or under no situation to erase the data, simply press any key other than **[ENTER]** to avoid deletion.

2. SCHD mode

1. An illustration of how to operate SCHD mode

e.g.: NEW PROJECT MEETING at 10:30 P.M. on AUG..20

KEY IN	DISPLAY
Press [SCHD] to select schedule mode	SCHD? SPC
	SCHDL 2303

Press N E W SPACE P R O J E C T SPACE M E E T I N G ENTER	NEW PROJECT ☀-0-00 A00-00 SCHDL
Press 0 8 - 2 0 ^{S TIME} AM/PM 1 0 - 3 0	NEW PROJECT 08-20 P10-3:☀ SCHDL
Press ENTER key to store data in the memory	NEW PROJECT 08-20 P10-30 SCHDL

Data Search in SCHD mode

1. Sequential search: Schedule data will be put to memory and stored out in array of schedule date.
 - a) Press ☑ or Ⓐ for a search in date sequence.

2. Direct search:
 - a) Input the searched prefix or word cluster less than 8 characters, then press ☑ or Ⓐ for a swift search.
 - b) For incorrect prefix or word cluster punched, "NOT FOUND!" will prompt on the display.
3. A date-based search: Input the month or month-day, and then press ☑ or Ⓐ to retrieve the schedule data of any specific date.

e.g. Retrieve the schedule of Aug. 20.

- 1) Press **SCHD**
- 2) Press **SHIFT**^X**J** then Input **SHIFT****SHIFT** 08 **M**20
- 3) Press ☑ or Ⓐ.

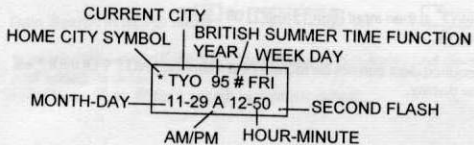
* In case the required data can not be found in the memory, " NOT FOUND! " will prompt on the display.

3. MEMO mode

Similar format as TEL mode

MEMO?	SPC.
	2303

4. H. TIME/W. TIME mode



1. Home time :

(1) Setup of local time

- Press $\overline{\text{W.TIME}}$ to select H.Time mode.
- Press $\overline{\text{SET}}$
- Set up home city by press \odot or \ominus or key in city abbreviation (max. 4 characters)
- Key in year and press $\overline{\text{DAY B}}$, \odot or \ominus to specify the week day.
- Key in local time in order of month, day, hour & minute.
- Press $\overline{\text{ENTER}}$ to assume your approval of no errors.

(2) Setup of home city:

- Press $\overline{\text{W.TIME}}$ $\overline{\text{W.TIME}}$ to select W. Time mode.
- With the keystroke of \odot or \ominus , pick out the desired city.
- Press $\overline{\text{SET}}$ to have " * " shown before the city name.

2. World time : In total, there are 30 international cities built-in for time zone indication.

(1) World time search:

- a) Press , to select W. Time mode.
- b) With the keystroke of \odot or \ominus , pick out the desired city.

(2) Daylight saving:

- a) Press , to select W. Time mode (while the setup of daylight saving on H. Time mode, only press once).
- b) Press to label the "#" ahead of week day, indicating the setup of daylight saving for all built-in cities other than home city.

* Switch of 12/24 hour formation:

Under H. TIME mode, press to switch hour formation.

3. Alarm.

- (1). Alarm shall be kept to home time. Alarm will still go on and won't be affected by time zone change from city to city.

(2). With a touch of alarm key, there come alternatively 3 different acoustic effects:

- 1) $(((\cdot)))$: Alarm on (see point 3 listed below)
 - 2) 🔔 : Hourly Chime on (a hourly beeper)
 - 3) $(((\backslash)))$: Schedule Reminder on (see point 4 listed below)
- (3). There is an acoustic period of one minute, while alarm is "ON"-- $(((\cdot)))$ emerging on the display-- and alarm time overlaps with home time.
 - (4). There is an acoustic period of one minute, when reminder is "ON"-- $(((\backslash)))$ emerging on the display-- and the time of any data stored in SCHD mode overlaps with home time.
 - (5). Setup of alarm time
 - 1) Press key.
 - 2) Press and "ALARM SET" appear on the display.
 - 3) Input the desired alarm time.
 - 4) Press key – $(((\cdot)))$ will appear on the display.

* Upon the completion of alarm setup, you have the choice to repeat key to turn on or off different acoustic effects.

* 30 built-in cities:

TIME ZONE	CITY NAME	ABBREVIATION	TIME DIFFERENCE
01	LONDON	LON	+0
02	PARIS	PAR	+1
03	CAIRO	CAI	+2
04	MOSCOW	MOW	+3
05	TEHRAN	THR	+3.5
06	DUBAI	DXB	+4
07	KABUL	KBL	+4.5
08	KARACHI	KHI	+5
09	DELHI	DEL	+5.5
10	DHAKA	DAC	+6
11	YANGON	RGN	+6.5
12	BANGKOK	BKK	+7
13	HONG KONG	HKG	+8
14	TOKYO	TYO	+9
15	ADELAIDE	ADL	+9.5

16	SYDNEY	SYD	+10
17	NOUMEA	NOU	+11
18	WELLINGTON	WLG	+12
19	TONGA	TNG	+13
20	MIDWAY ISLANDS	MID	-11
21	HONOLULU	HNL	-10
22	ANCHORAGE	ANC	-9
23	LOS ANGELES	LAX	-8
24	DENVER	DEN	-7
25	CHICAGO	CHI	-6
26	NEW YORK	NYC	-5
27	CARACAS	CCS	-4
28	RIO DE JANEIRO	RIO	-3
29	---	-2H	-2
30	AZORES ISLANDS	AZO	-1

5. SECRET function

- 1) Only available in TEL, SCHD and MEMO mode.
- 2) Password restricted to less than 6 characters.
- 3) Password setup:
 - a) Press ^{Over} [SET] in TEL, SCHD or MEMO mode.
 - b) Input password (max. 6 characters)
 - c) Press ^{Over} [SET]
- 4) Press ^{Over} [SET] twice to protect private data With the password hidden.
- 5) Input Secret Data
 - a) Select TEL · SCHD or MEMO mode · example : TEL mode.
 - b) Input telephone name, then press [ENTER]

- c) Input telephone number, then press ^{Over} [SET] , and " Over " appeared on display.
- d) Press [ENTER] to store the secret data.

6) Unlock Secret:

- a) Press ^{Over} [SET]
- b) Over appears on the display.
- c) Input password then press ^{Over} [SET]
- d) Press Ⓢ or Ⓜ key to have a swift look over the selected data.

7) Edit Secret Data

- a) Same first three steps as point 6 " unlock secret "
- b) Locate the data for revision by pressing Ⓢ or Ⓜ key.
- c) Use [SHIFT] and ^{INS} or ^{DEL} key to move cursor to the position intended for a revision.
- d) Press [SHIFT] , ^{INS} or [SHIFT] ^{DEL} to insert or delete words.

e) After a modification without error, press **ENTER** to store modified data in memory.

8). Modify Password:

a) Same first three steps as point 6 "Unlock Secret".

b) press **SET**, **OFF** flashes and original password appears and cursor blinking.

c) press **SHIFT** **INS** or **DEL** key to move the cursor to specific

d) Input new password

e) Press **SET**

* For inadequate input of password at the while of unlocking secret, "OPEN ERROR!" will prompt on the display.

6. Use of the CALCULATOR

You can use this device to run standard arithmetical calculation and memory calculation with up to 10 digits computing.

1) Standard Calculation.

For standard Calculation (+, -, ×, ÷), press the keys in the order they appear in arithmetic operation.

2) Memory Calculation.

The memory calculation features an easy multi-step computing. Following keys for memory calculation.

* (M+) to sum up a calculation and add the total into memory.

* (M -) to sum up a calculation and subtract the total out of memory.

* (MRC) press once to recall (display) the value in memory, press twice to clear memory.

e.g. You press:	You see
4 x 5 M+	M 20
2 8 + 2 M+	M 30
7 - 2 M-	M 5
7 5 + 5 M-	M 80
MRC	M-35
MRC	-35

NOTE: In case of calculation error, display will show "ERR" (standard calculation error) or "M ERR" (memory calculation error) in top corner.
You can press CE/C to resume calculation.

7. RESET function:

Press RESET and ENTER will clear all the stored data in memory see FIG #2.

-WARNING -

Unless inevitable, do not pierce the RESET button to prevent the loss of priceless data.

8. Changing BATTERY

- (1) Turn the power off (press "OFF" key), and remove the battery cover, see FIG#1.
- (2) Remove the battery from the unit.
- (3) Insert a new battery into the battery slot.
- (4) Fasten the battery cover.
- (5) "RESET?" will prompt on the display.
- (6) Press any other key except the "ENTER" key.

--WARNING--

* When "RESET?" appears, don't touch the ENTER key to avoid the loss of data stored in memory.

* Make sure the battery polarity (+/-) is correctly connected at the time of battery change.

FIG #1

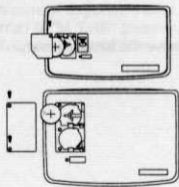
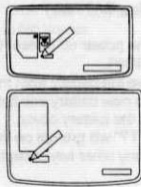


FIG #2



General Specifications

Main Component	: CMOS LSI
Power supply	: One lithium battery (CR 2025)
Auto power off	: Approximately 7 minutes after last keystroke.
Ambient temperature range	: 0°C ~ 40°C (32°F ~ 104°F)
Dimensions	: 115×70×11mm
Weight	: 0.0684 Kg