
EMS - 9200K

사용자 설명서



D O N G H W A M . S . C

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1.

1-1

EMS-9200K VDE010 C가 500VACrms , 650VACrms
ICE 384.1
가

1-2

EMS EMS4000, EMS420, EMS400 가 3
EMS-9200K
(Amperometric Clamp) 가
ABS 가

(80~260VAC)

EMS-9200K RS 232
, D-LITE 가

EMS-9200K 3 1000A, 1VAC full scale

TA 1 5A full scale 가

40 가 가 , RAM

가 RAM 512K 4M byte

(50)

EMS-9200K /

가 SEM1

LCD RS232

8

1-3

: 300V

: 320V(20)

: 10VA ()

: 25VA ()

: 40VA ()

FUSE : 2A, 250V

: 750Vms -

(VT - Voltage Transformers)가

Burden : 0.15VA(), each
: 750Vrms, Surge : 1600Vrms(1)
: : 1/2/3/10Vrms (),
CT CLAMP
: 1Mohm
(CT) : 1.2V
Surge : 100V(1)
: 1/5/20A
: 0.5% rdg, ±1 digit
0.5% rdg, ±1 digit
1% rdg, ±1 digit
IEC 1036 1
2% rdg, ±1 digit
±0.1 Hz
0.5%
: 14Hz 500Hz
(20V 40~60Hz 가)
: 8 32 (50Hz=1.6KHz 90Hz=2.88KHz)
0.5 , 10 , 30 (ZERO)
: FFT 50 가 3 , 3
1 64
10
RAM : 15
: RS 232
9600 가
/ ()
TO 30 Vdc 100Ma 2
No. 1+1 가
: 128 X 128 LCD
: 2000
() : 512K 4MByte
: 가 , 가 / 15
(FFT)
RAM 가

1.3.1 RAM

15

$$(\) = \frac{\text{RAM } x}{24}$$

/

$$(\) = \frac{\text{RAM } x}{4 \ x}$$

$$(\) = \frac{\text{RAM } x}{330}$$

1.3.2

RAM(KB)	ENERGIES(KB)	MIN/MAX(KB)	SAMPLES(KB)	HARMONICS(KB)
512	469	-	-	-
512	-	469	-	-
512	-	-	469	-
512	-	-	-	465
512	64	405	-	-
512	64	-	405	-
512	64	-	-	401
512	-	219	249	-
512	-	233	-	401
512	-	-	233	401
512	64	189	215	-
512	64	202	-	198
512	64	-	205	195
512	-	153	159	195
512	64	139	144	116

PRO 40

42 , 252 , 0.19x0.37mm
 : 1.0 Line per sec
 : 2.3Line per sec

- : 57mm(58mm)
- : 65 ~ 85 μ m
- : 52 ~ 64cm/gm²
- : 12mm min
- : 50mm max.(21m)

- : EPSON ERC09(가)
- : / 250,000

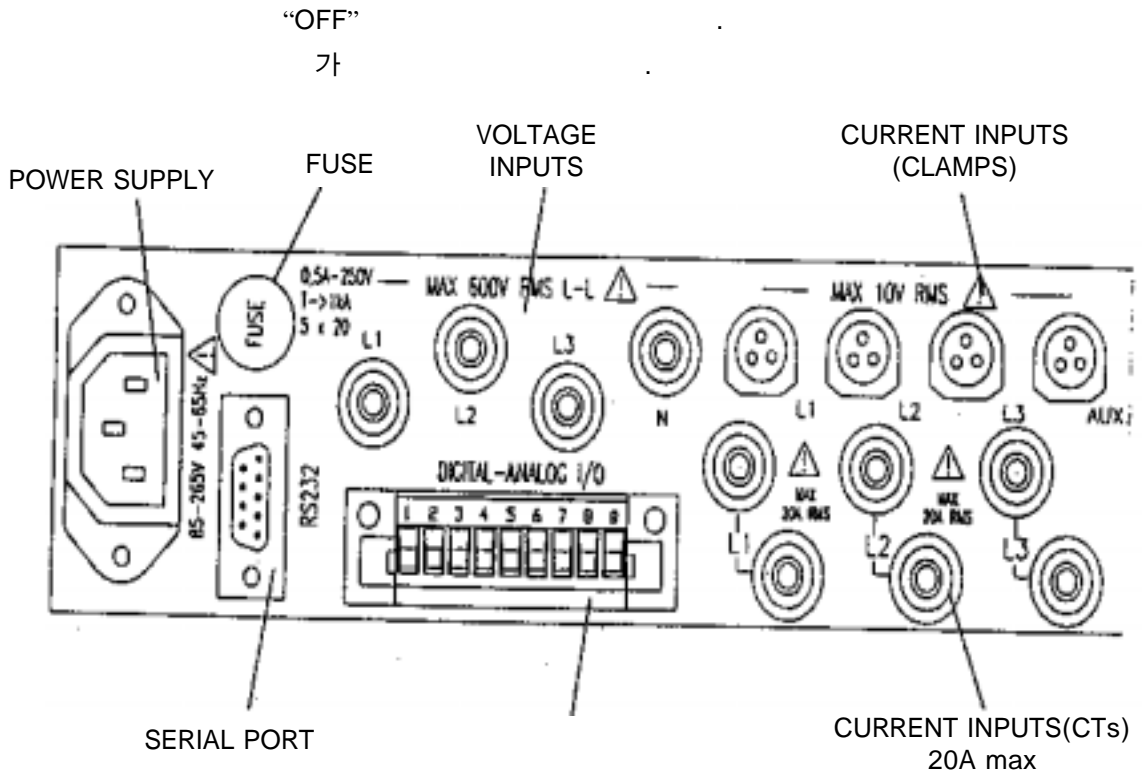
1-4

RMS	$V_{L1-N} - V_{L2-N} - V_{L3-N}$ [V]
RMS	$V_{L1-L2} - V_{L2-L3} - V_{L3-L1}$ [V]
RMS 3	V[V]
RMS	$I_{L1} - I_{L2} - I_{L3}$ [A]
RMS 3	I[A]
	PF _{L1-L2-L3}
3	PF
	$S_{L1-L2-L3}$ [VA]
3	S[VA]
	$P_{L1} - P_{L2} - P_{L3}$ [W]
3	P[W]
	$Q_{L1} - Q_{L2} - Q_{L3}$ [VAr]
3	Q[VAr]
3	W[Wh] (99.99GWh)
3	W[Wh] (99.99GWh)
3	W[Varh] (99.99GVArh)
3	W[Varh] (99.99GVArh)
	P[W]
	F[Hz]
(THD)	$V_{L1-N} - V_{L2-N} - V_{L3-N} - I_{L1} - I_{L2} - I_{L3}$ [%]
/	, , , /
(FFT	가) : 3 3 (Line) 25

$$V_{L1-N} - V_{L2-N} - V_{L3-N} - I_{L1} - I_{L2} - I_{L3}[\%]$$

3.

3-1



3.1.1 UPM - 6100

3-2

()

2A,250V,T Type FUSE

FUSE

FUSE CASE

FUSE

3-3

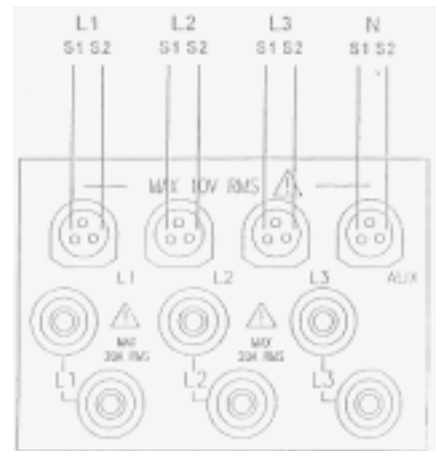
) EMS-9200K 750Vrms 가
 EMS-9200K IEC348 1 650VACrms 가
 ,
 4 3
 (3.5)
 (L1 = L1)
 VT , /

3-4

EMS-9200K

가

3FOUE - POLES 가
 1V full scale VDE 0110 VBG4
 20A 4mm² K Type
 5A 가 FOUR - POLE 3
 5A
 3.5) C() / 가
 CT2 (short)

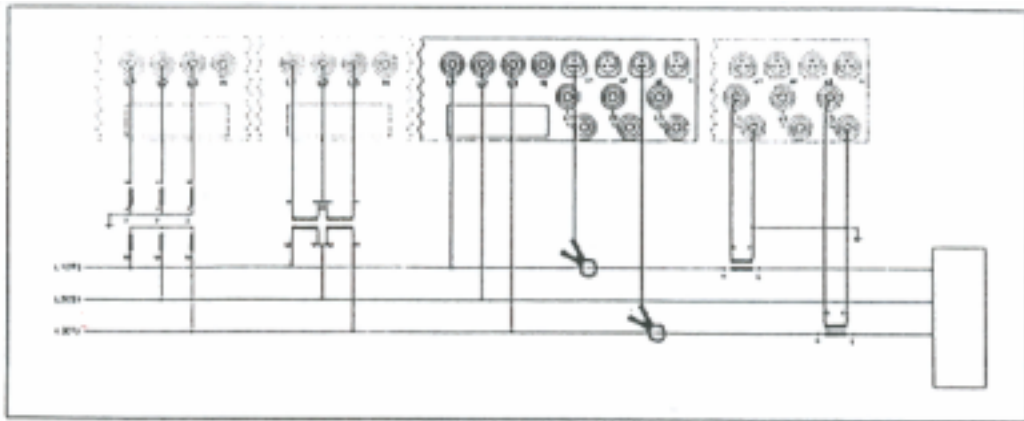


3.4.1 Current Inputs

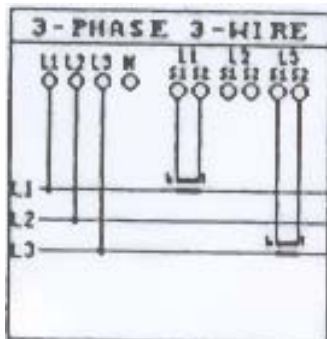
3-5

, L2 L3 N 가 3 4 /3CT
 Info (5.4) CT clamp 3.5.1b 3.5.1c 가

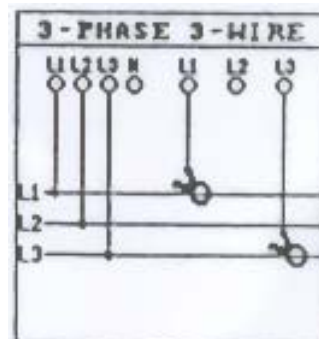
3 3 / 3CT



3.5.1a

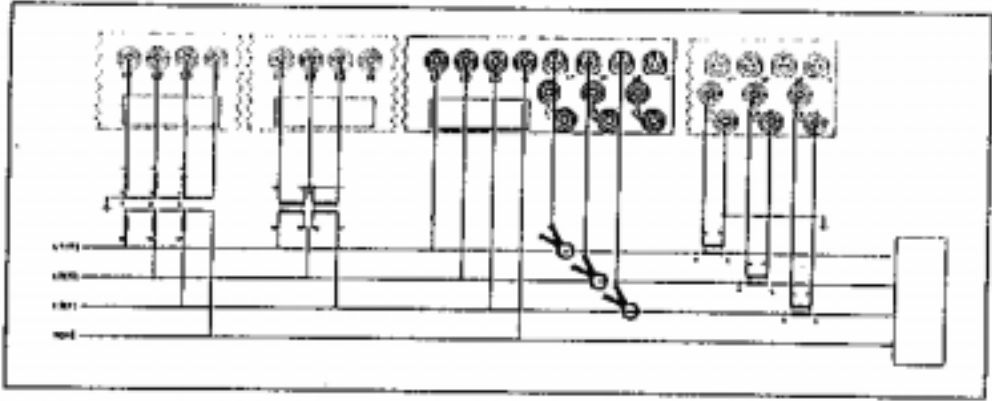


3.5.1b

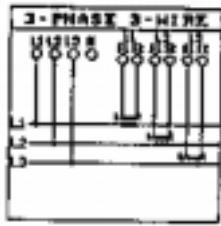


3.5.1c

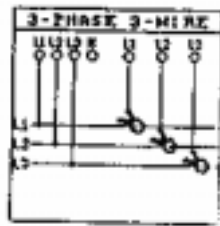
3 3 / 3CT



3.5.2a



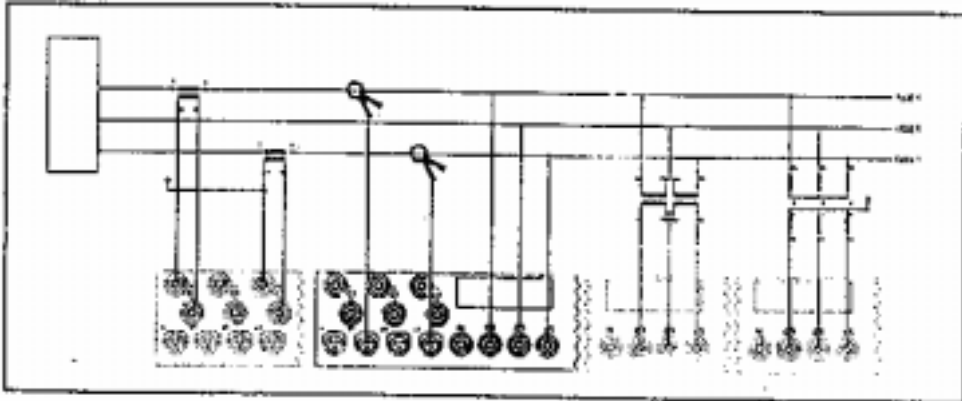
3.5.2b



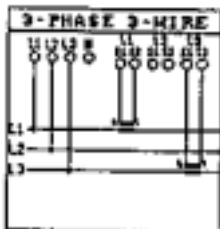
3.5.2c

(5.4)
Info
Clamp 가
3 3 / 3CT
CT
3.5.2b, 3.5.2c

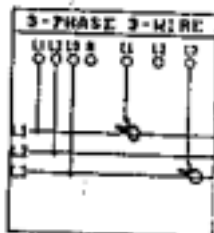
3 3 / 2CT



3.5.3a



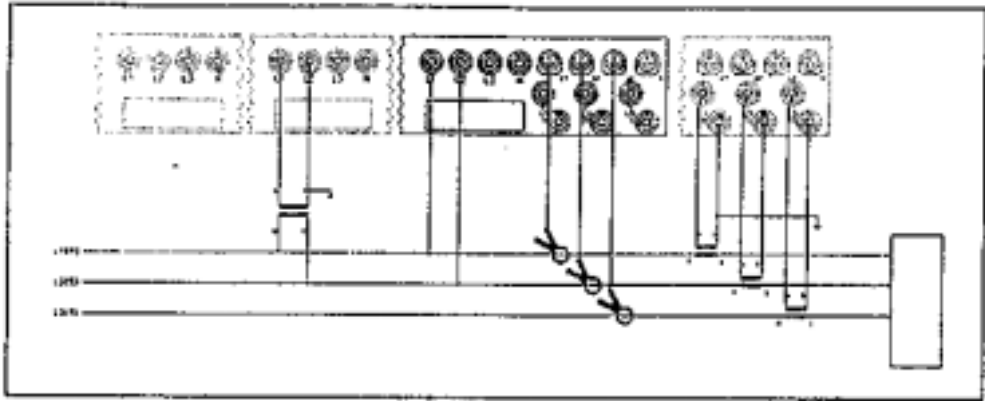
3.5.3a



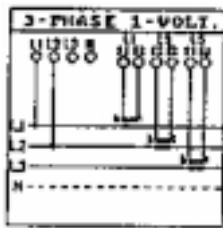
3.5.3a

(5.4)
Info
Clamp 가
3 3 / 2CT
Info
3.5.3b
CT

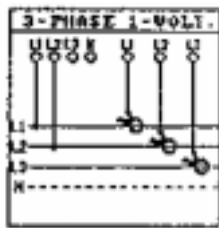
3 1 / 3CT



3.5.4a



3.5.4b

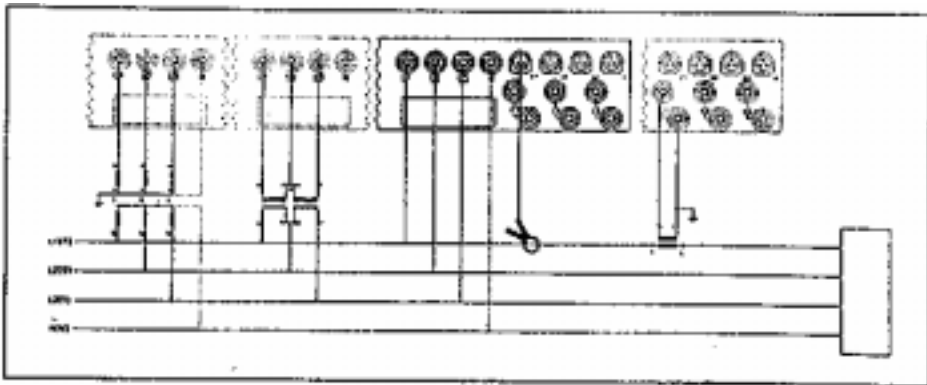


3.5.4c

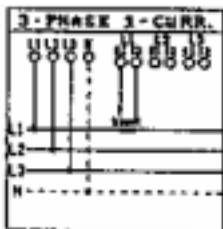
(5.4)
Info
Clamp
가

3 1 / 3CT
CT
3.5.4b, 3.5.4c

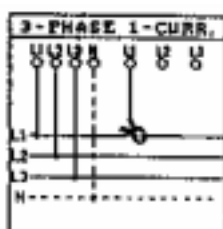
3 3 / 1CT



3.5.5a



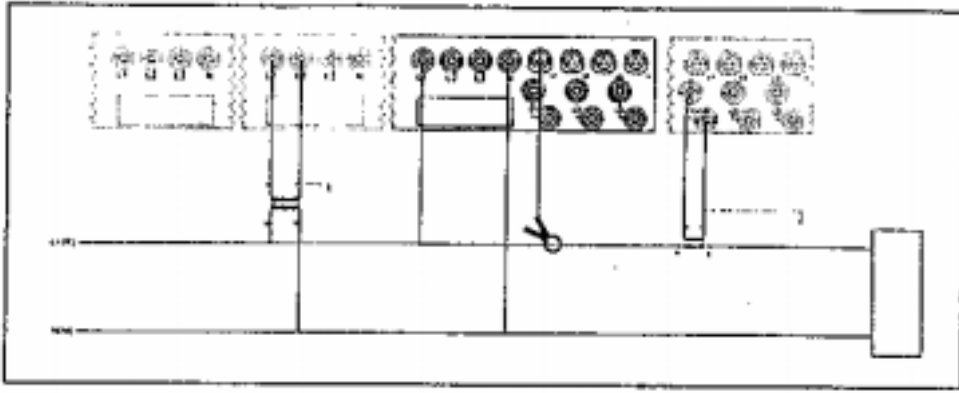
3.5.3a



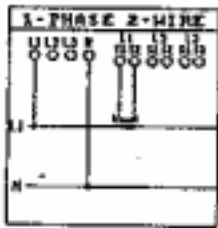
3.5.3a

(5.4)
Info
Clamp
3.5.4c가

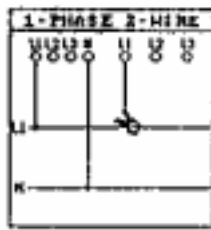
3 3 / 1CT
Info
3.5.4b
CT



3.5.7a



3.5.7b



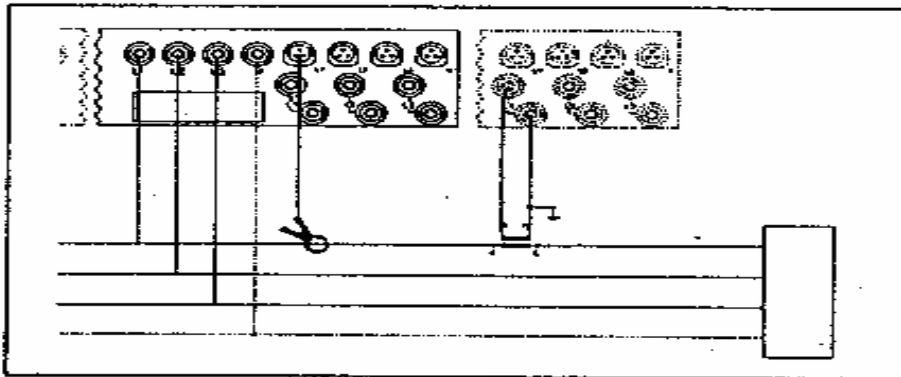
3.5.7c

(5.4)
Info
Clamp
가

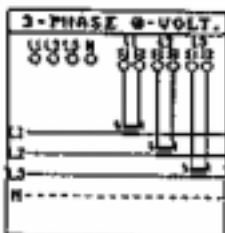
1 (L1)

CT
3.5.7b, 3.5.7c

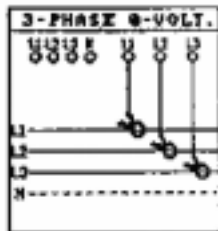
3 0 / 3CT



3.5.8a



3.5.8a



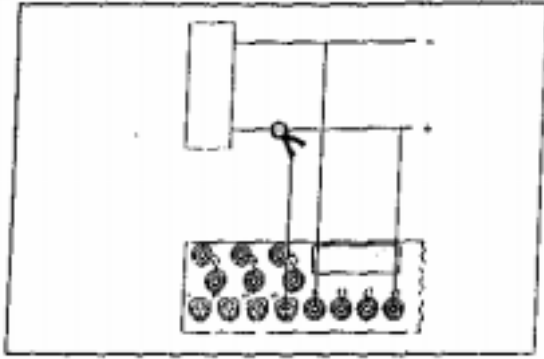
3.5.8a

(5.4)
Info
Clamp
3.5.8c가

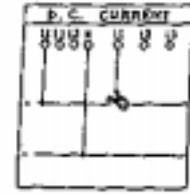
3 0 / 3CT

Info CT
3.5.8b

DC



3.5.9a



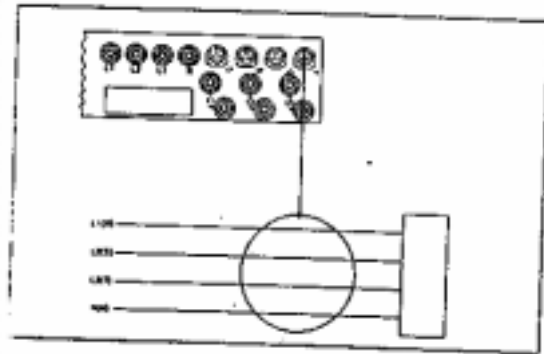
3.5.9b

1 DC

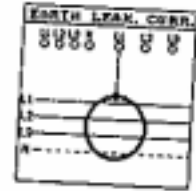
(5.4)
Info
가

3.5.11b

(OPTION)



3.5.10a

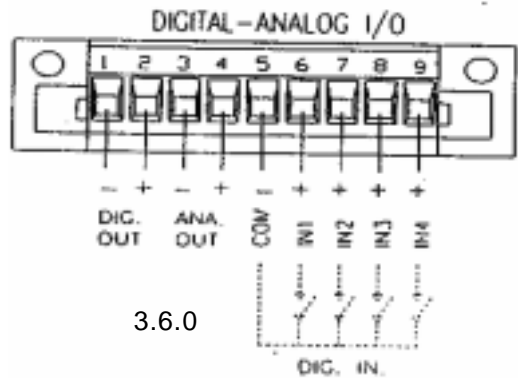


3.5.10b

(5.4)
3.5.10b가

Info

/ (OPTION)
Nr. 1 Digital
Nr. 1 Analog (0~20mA / 4 ~ 20mA)
Nr. 44 Digital



3.6.0

3.6.2

2 Galvanically sealed
 5.5 EMS-9200K

3.7.2

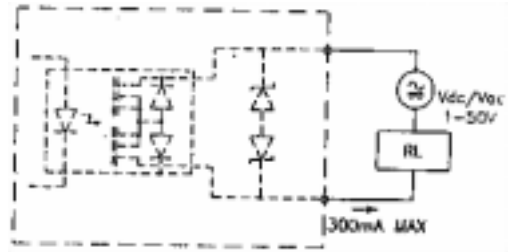
3.6.2

! +

50VDC
 300mA

(Zero)가
 (RL)

$$V_{RL} = V_{CC} - V_{SAT}$$



EMS-9200K

VDE0110, C

VBG4

4mm² 20A

K Type

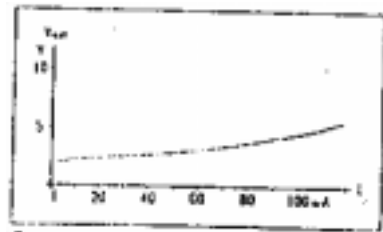
3.6.2a

EMS9200K

1

, 가

90



3.6.3

0~20 4~20mA(5.6)

EMS-9200K

!

3.8.1

3.6.3

10V

500 Ohms

EMS-9200K

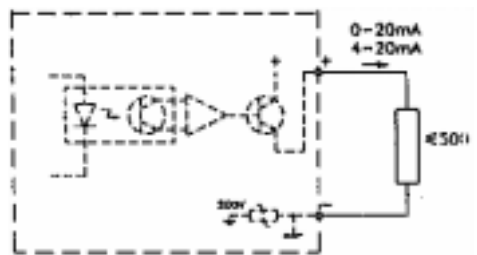
VDE0110

C, VBG4

K

4mm²

20A



!

()

3.7

RS-485 EMS-9200K ASCII
 RS-232 EMS-9200K LOGICAL NUMBER LOGICAL NUMBER
 00 , 2 Subminiature DB 25 RS 232
 DB25/DB9

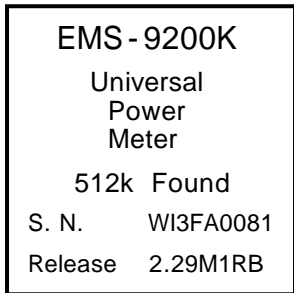
4.




EMS-9200K 3

4.1

Back-lit semi-graphic LCD 가 8
 (light)가 2000
 EMS-9200K , MAIN PAGE
 MAIN PAGE REAL TIME energy COUNTER SET - UP
 가 MAIN MENU가 , MODE

4.2 START UP

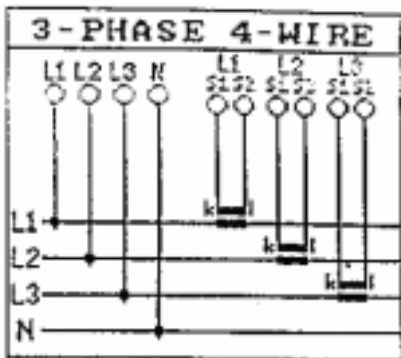


ON 3 가
 KEY MAIN PAGE가
  KEY
 SETUP
 KEY 4.3.0(MENU)



4.2.2()

4.2.1 Instrument configuration



4.2.2

INPUT SETUP

Three – phase
4 Wires / 3 CT

VT value: 0010 kV
Vol.input: 100 V

Clamp: 1000 A
Cur.input: 5 A

- MODE
-
- PT 1 (600Vrms)
- Clamp (20A)
- Clamp (1.2.3.10 20A)

4.2.3

4.3 MENU

MENU

Real – Time

Energy Counters
Mix/Min
Oscilloscope
Harmonics
Profiles
Info

MENU KEY
(4.3.0)

4.3.0

4.3.1 KEY

4.3.1

MODE가



KEY

MENU
SETUP

MODE

MODE

SHIFT +

MENU
SETUP

KEY

SETUP PAGE

PRINT

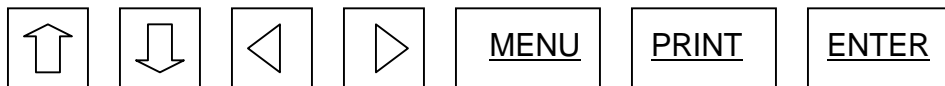
PRINT

PRINT

SHIFT +

PRINT

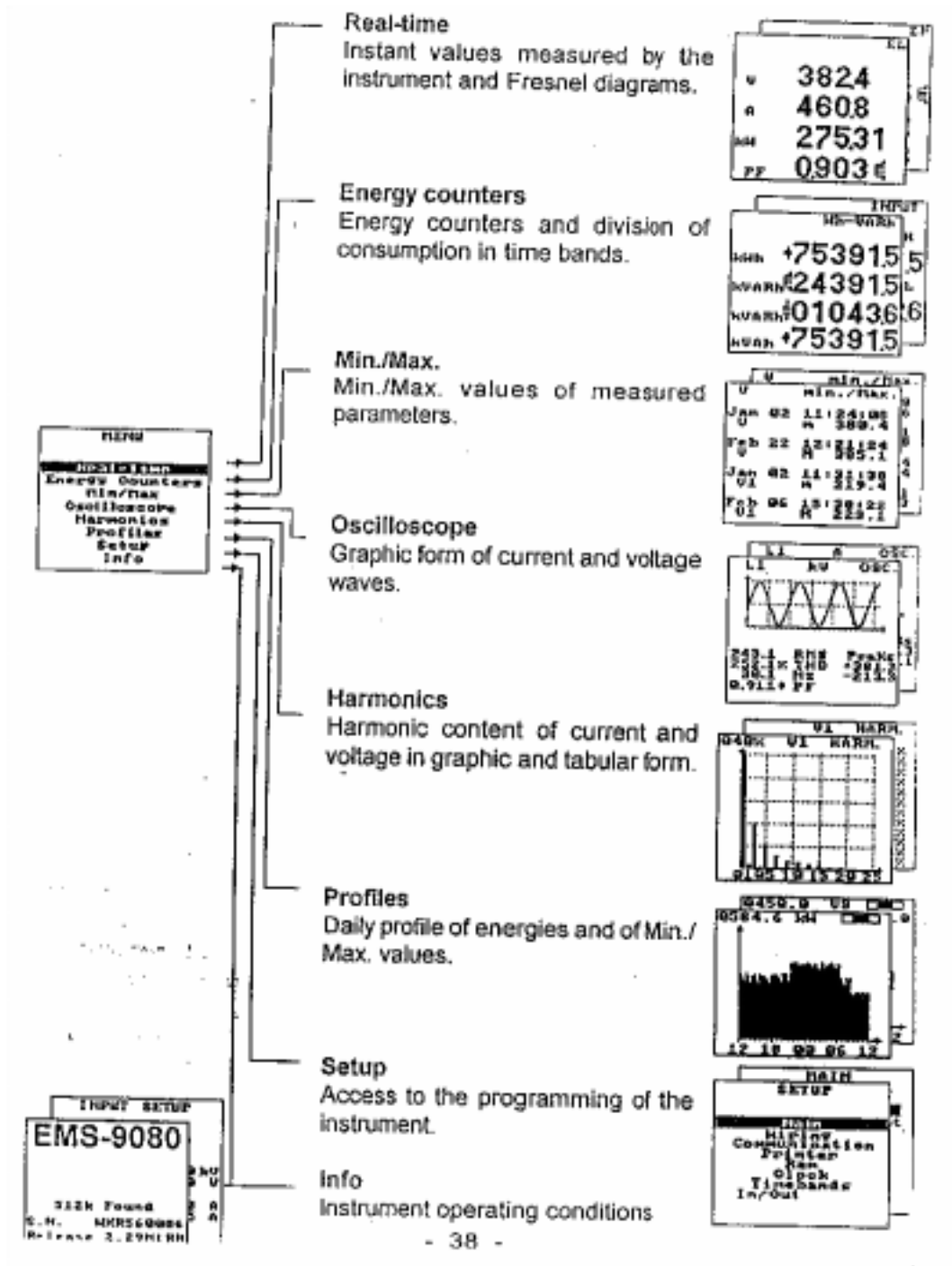
(/ 가)



LCD

KEY

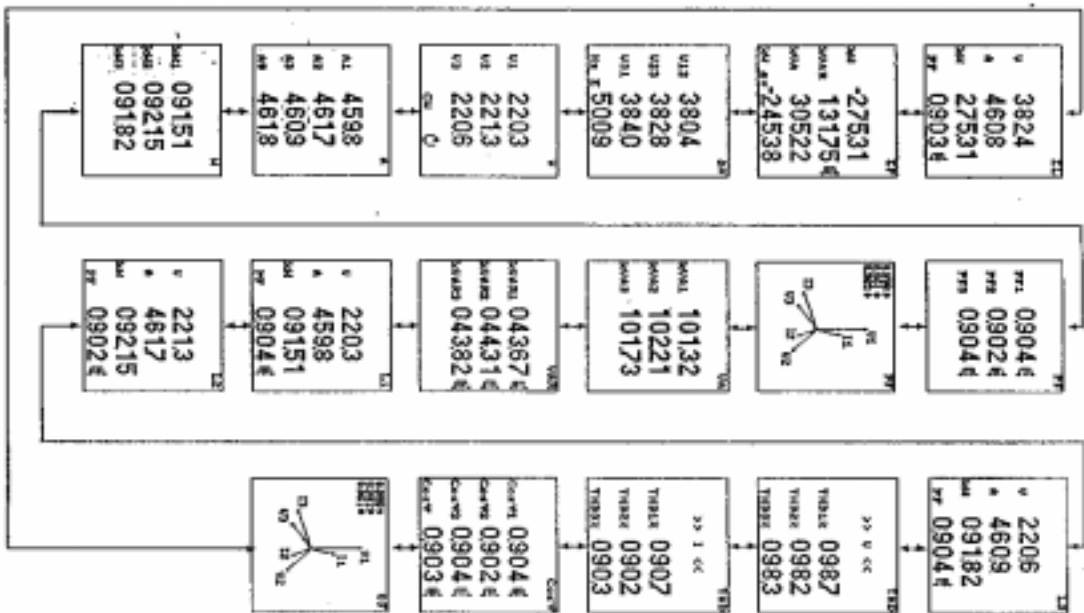
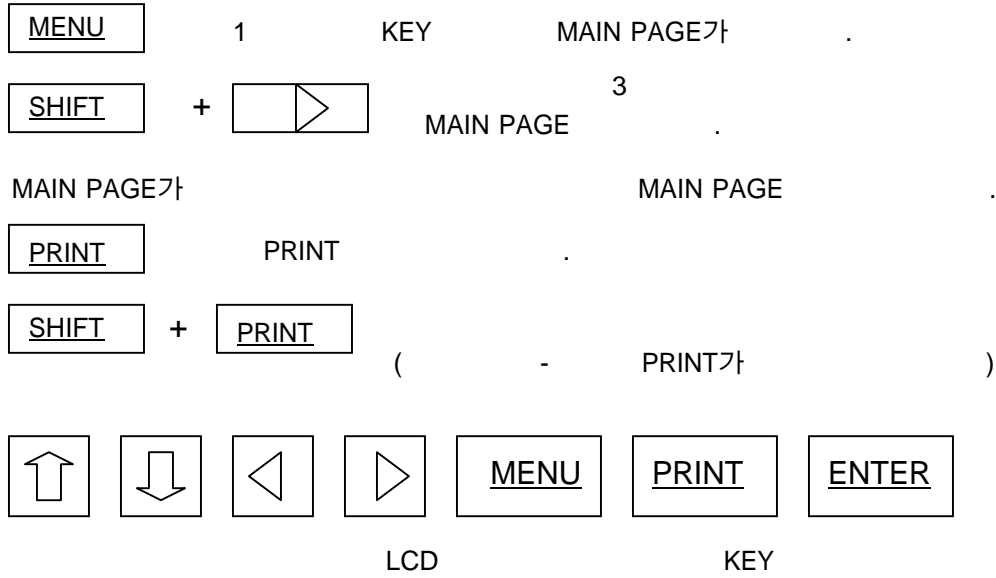
MAIN MENU



4.4 REAL TIME ()

MENU PAGE 가 REAL-TIME PAGE 가
 DATA가 PAGE MAIN PAGE 가
 MAIN PAGE ON KEY 2
 MAIN PAGE

4.4.1 KEY



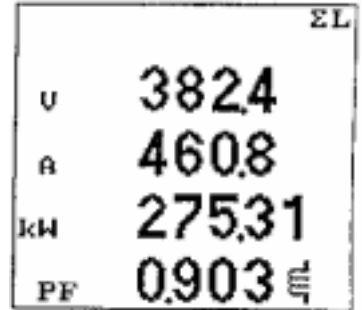
4.4.0 Real time display page

4.4.2

COS , 가 , 3 . (4.4.0)

3

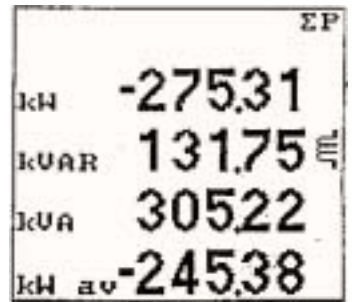
- 3 rms V[V]
 - 3 rms I[A]
 - P[W]
 - PF
- 가 , 가 .



4.4.1

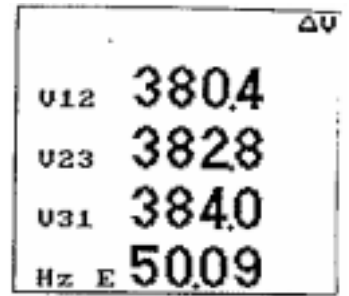
3

- P[W]
- Q[Var]
- S[VA]
- P[W]



4.4.2

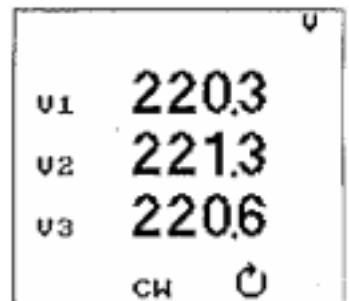
- R-S rms V_{12} [V]
 - S-T rms V_{23} [V]
 - T-R rms V_{31} [V]
 - R F[Hz]
- (E= / I=)
- 가 (
- 20V) “-” 가 .



4.4.3

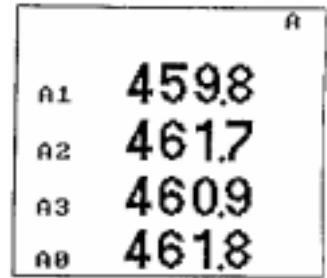
- R V_1 [V]
- S V_2 [V]
- T V_3 [V]

CW(L1,L2,L3) : CCW(L1,L2,L3)



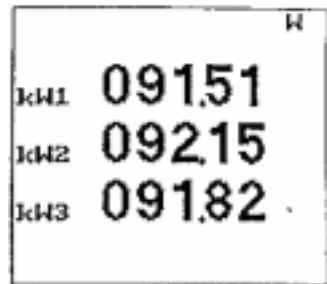
4.4.4

- R I_1 [A]
- S I_2 [A]
- T I_3 [A]
- (3 4) I_N [A]



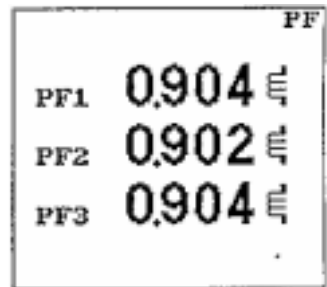
4.4.5

- R P_1 [W]
- S P_2 [W]
- T P_3 [W]
- (-)

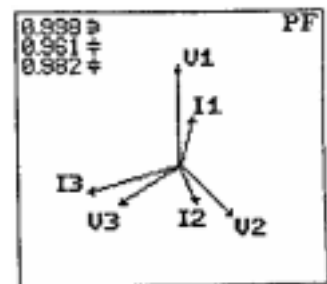


4.4.6

- R PF_1
- S PF_2
- T PF_3
- 가 , 가

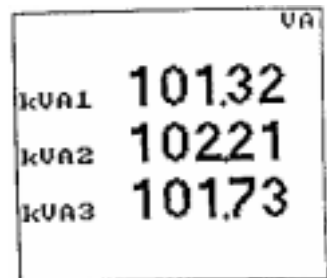


4.4.7



4.4.8

- R S_1 [VA]
- S S_2 [VA]
- T S_3 [VA]

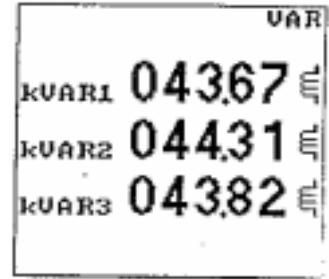


4.4.9

- R Q_1 [Var]
- S Q_2 [VAr]
- T Q_3 [VAr]

가

가

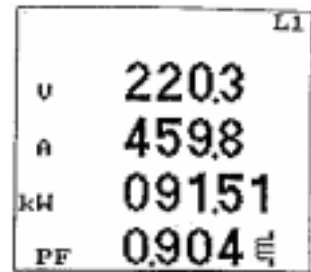


4.4.10

R

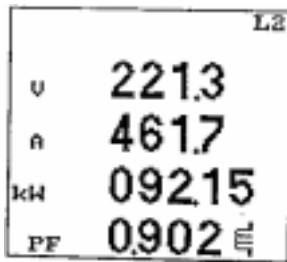
- R rms
- R
- R
- R

- V_{L1-N} [V]
- P_{L1} [A]
- P_{L1} [W]
- PF_L

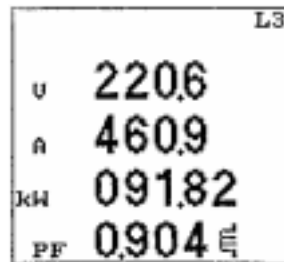


4.4.11

S



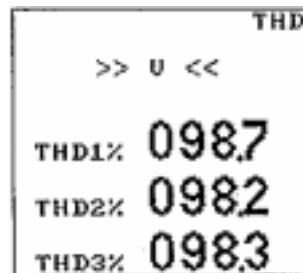
4.4.12



4.4.13

3 rms

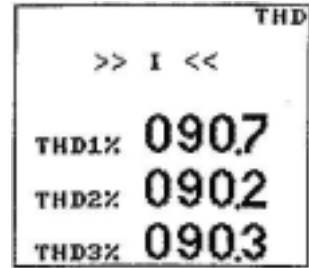
- R V_1 [V]
- S V_2 [V]
- T V_3 [V]



4.4.9

3 rms

- R I_1 [A]
- S I_2 [A]
- T I_3 [A]



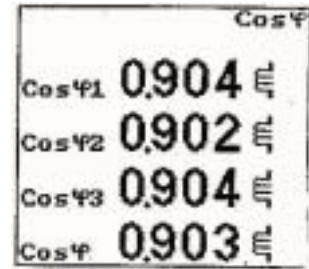
4.4.15

3 cos (option FFT)

- R COS
- S COS
- T COS

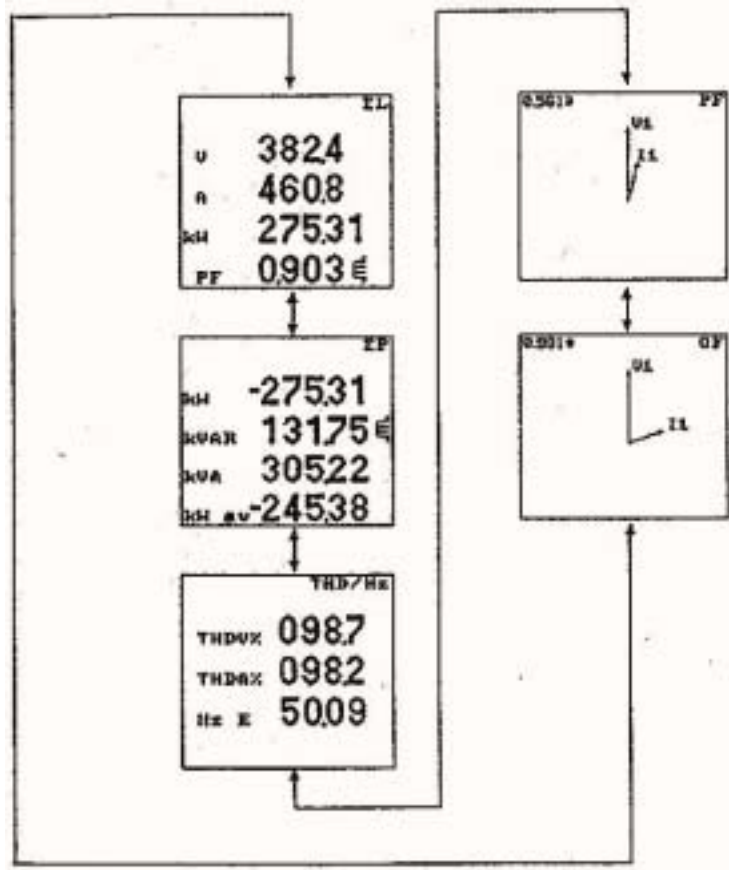
가

가



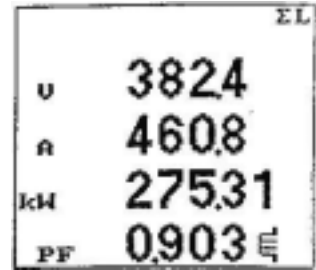
4.4.11

4.4.13 REAL-TIME



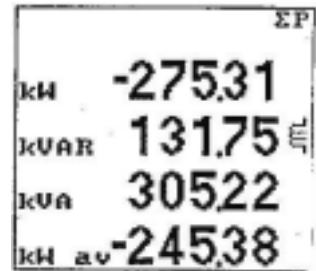
4.4.18 Real-Time display pages

- rms V [V]
 - rms I [A]
 - P [W]
 - PF
- 가 (-) 가 .



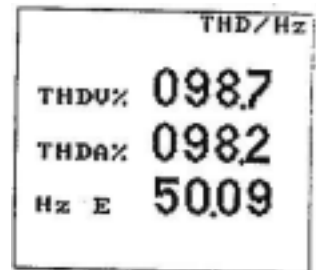
4.4.19

- P [W]
- Q [Var]
- S [VA]
- P [W]



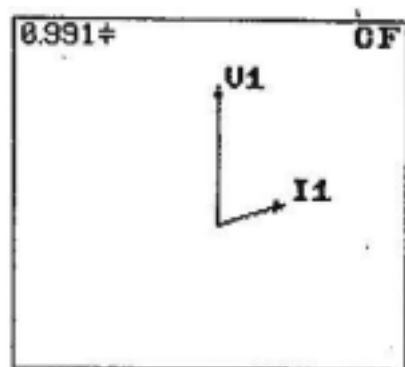
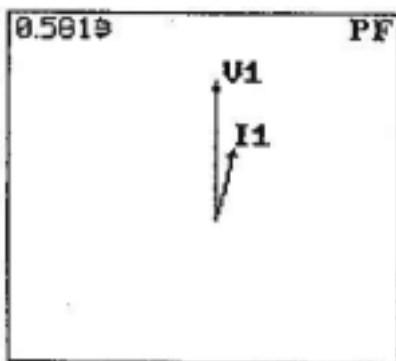
4.4.20

- V [%]
- I [%]
- F [Hz]



4.4.20

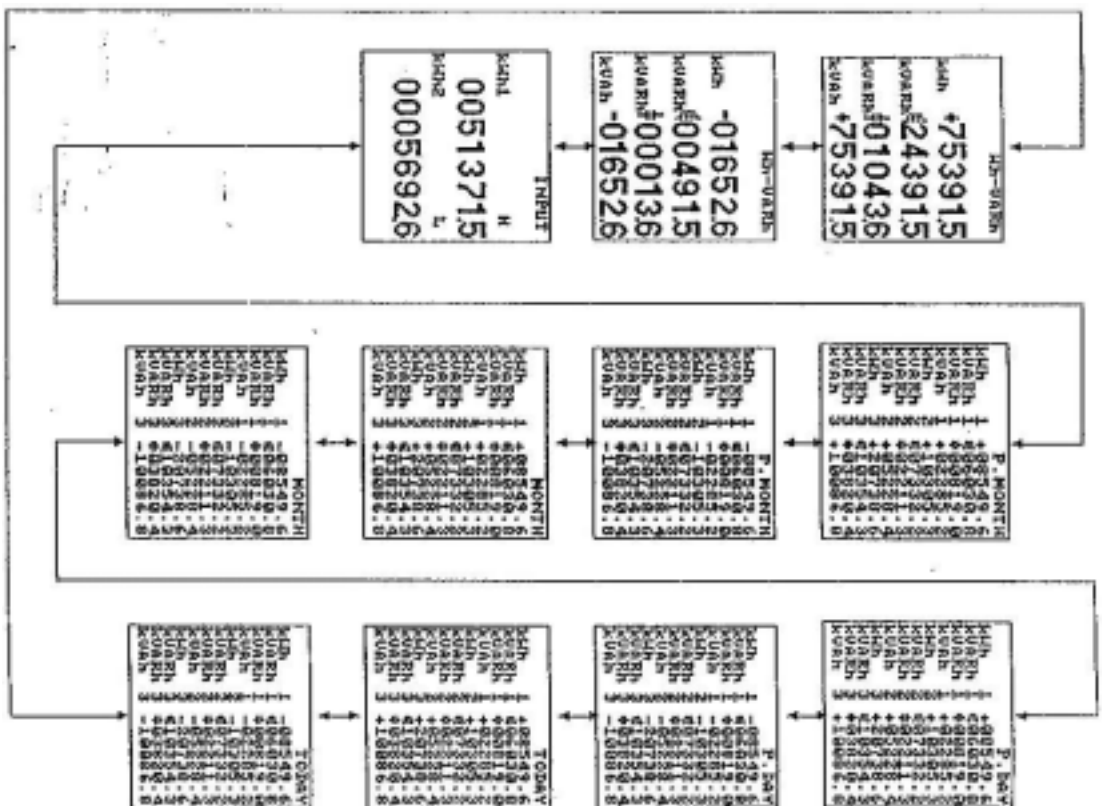
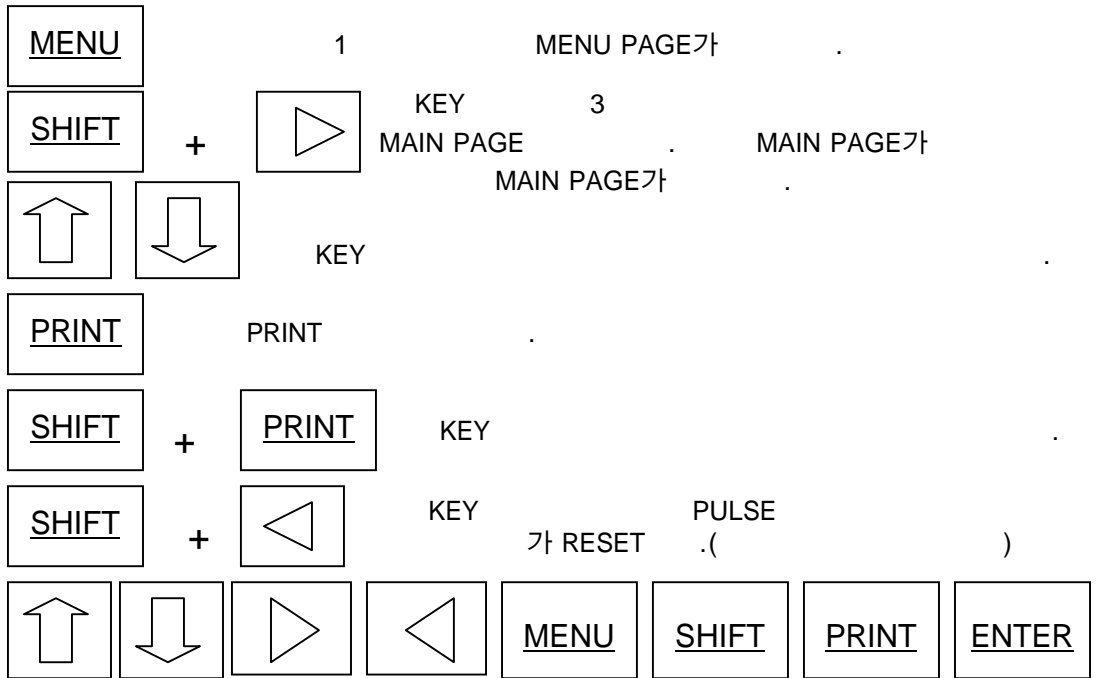
COS



4.5 (Time Band)

MENU PAGE (ENERGY COUNTER) .
 PAGE MAIN PAGE , MAIN PAGE ON
 KEY 2 PAGE가 .

4.5.1 KEY



4.5.2

2 1 (+) 1
 (-) . ()

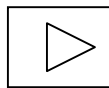
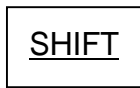
- W [Wh]
- W [Varh]
- W [Varh]
- W [Wh]

가 가

(OPTION)

- Nr1 W [kWh]
- Nr2 W [kWh]

H/L (H:high, L:low)



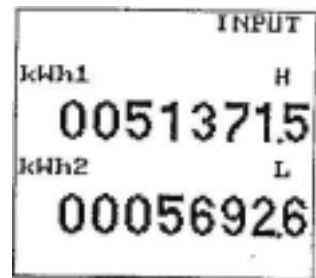
KEY
RESET

(OPTION)

: ()



4.5.1 Wh-VARh display



4.5.2 INPUT display

4.6 /

MENU PAGE

MIX / MAX

PAGE

12

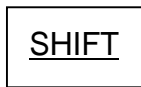
가

4.6.1 KEY

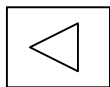


KEY 1

MENU PAGE

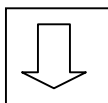
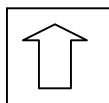


+



KEY

“...”가

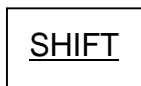


KEY

PAGE



PRINT



+



KEY

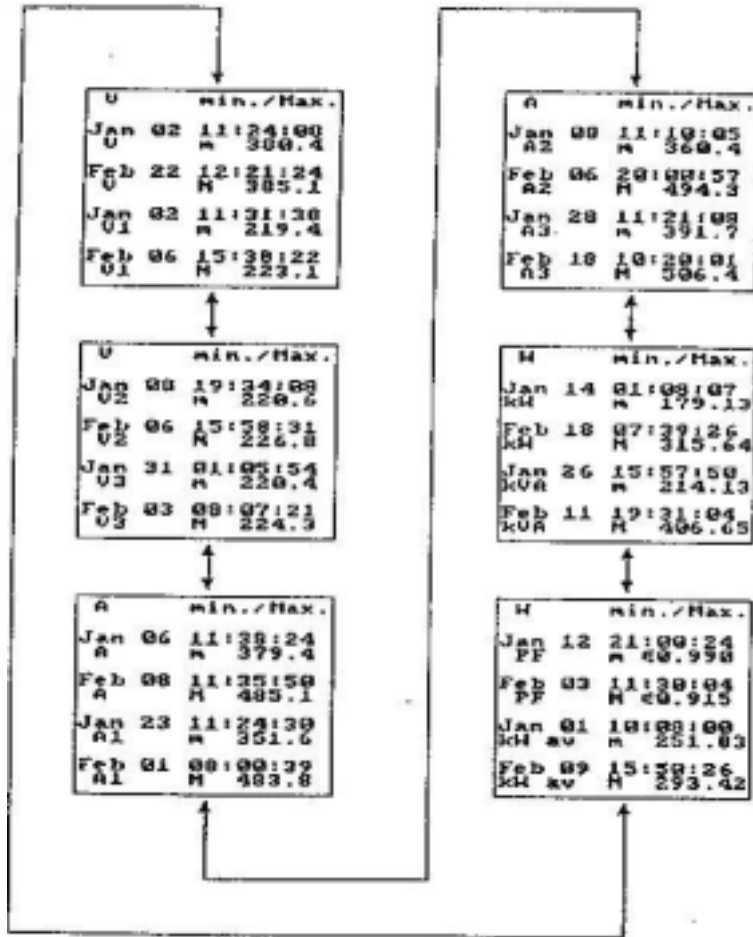


LCD

LEY

4.6.0

PAGE가



4.6.0

4.6.2

- 3 (/) rms
- R

		min. / Max.
Jan 02	V	11 : 24 : 08
		m 380.4
Feb 22	V	12 : 21 : 24
		M 385.1
Jan 02	V1	11 : 31 : 38
		m 219.4
Feb 06	V1	15 : 38 : 22
		M 223.1

4.6.1

• S

• T

V2		min. / Max.
Jan	08	19 : 34 : 08
V		m 220.6
Feb	06	15 : 28 : 24
V2		M 385.1
Jan	31	01 : 05 : 38
V3		m 219.4
Feb	03	15 : 38 : 22
V3		M 224.3

4.6.2

• 3

• R

, , rms
 (/)
 (/)

V2		min. / Max.
Jan	08	19 : 34 : 08
V		m 220.6
Feb	06	15 : 28 : 24
V2		M 385.1
Jan	31	01 : 05 : 38
V3		m 219.4
Feb	03	15 : 38 : 22
V3		M 224.3

4.6.3

• S

• T

V2		min. / Max.
Jan	08	19 : 34 : 08
V		m 220.6
Feb	06	15 : 28 : 24
V2		M 385.1
Jan	31	01 : 05 : 38
V3		m 219.4
Feb	03	15 : 38 : 22
V3		M 224.3

4.6.4

•

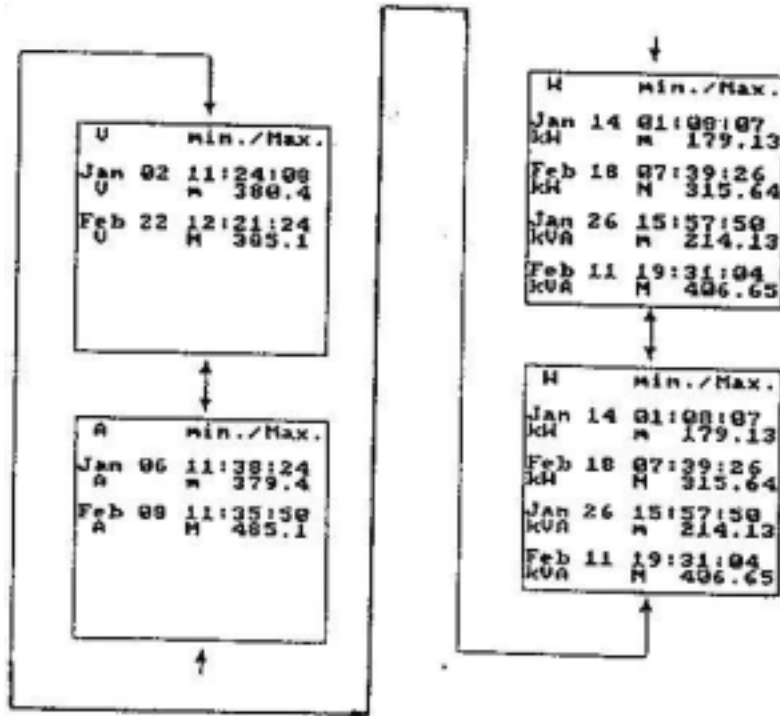
•

P[W]
 S[VA]

V2		min. / Max.
Jan	08	19 : 34 : 08
V		m 220.6
Feb	06	15 : 28 : 24
V2		M 385.1
Jan	31	01 : 05 : 38
V3		m 219.4
Feb	03	15 : 38 : 22
V3		M 224.3

4.6.5

4.6.3



4.6.7

- rms
- rms

rms

		min. / Max.
Jan 02	V	19 : 34 : 08
		m 220.6
Feb 06	V	15 : 28 : 24
		M 385.1

4.6.8

- rms
- rms

rms

		min. / Max.
Jan 06	A	11 : 34 : 08
		m 220.6
Feb 08	A	11 : 35 : 24
		M 385.1

4.6.9

- rms
- rms

rms

		min. / Max.
Jan 06	W	11 : 34 : 08
		KW m 220.6
Feb 08	W	11 : 35 : 24
		KW M 385.1
Jan 26	KVA	15 : 57 : 50
		m 214.13
Feb 09	KVA	15 : 50 : 26
		M 406.65

4.6.10

W		min. / Max.
Jan	12	11 : 34 : 08
PF		m 0.990
Feb	03	11 : 35 : 24
PF		M 0.915
Jan	01	15 : 57 : 50
KW	av	m 251.13
Feb	09	15 : 50 : 26
KW	av	M 293.42

- PF
- P[W]

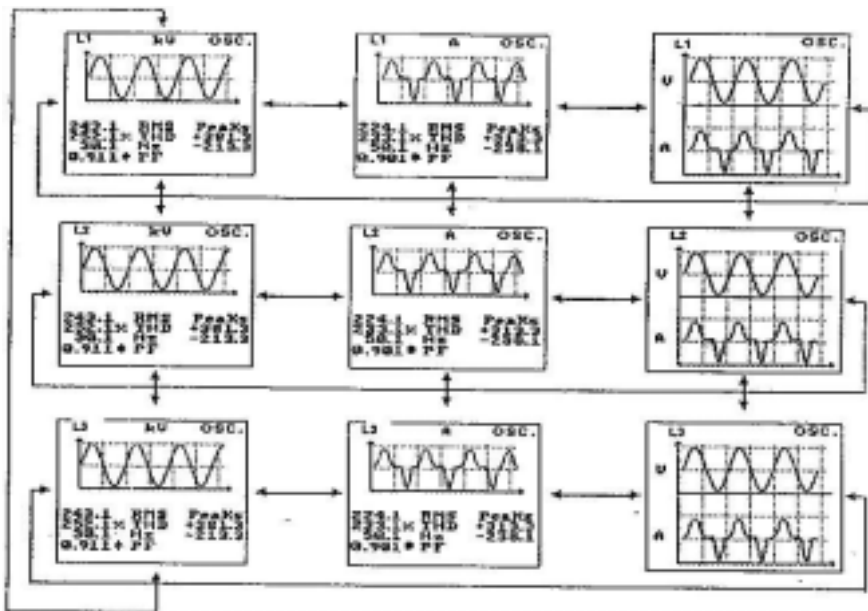
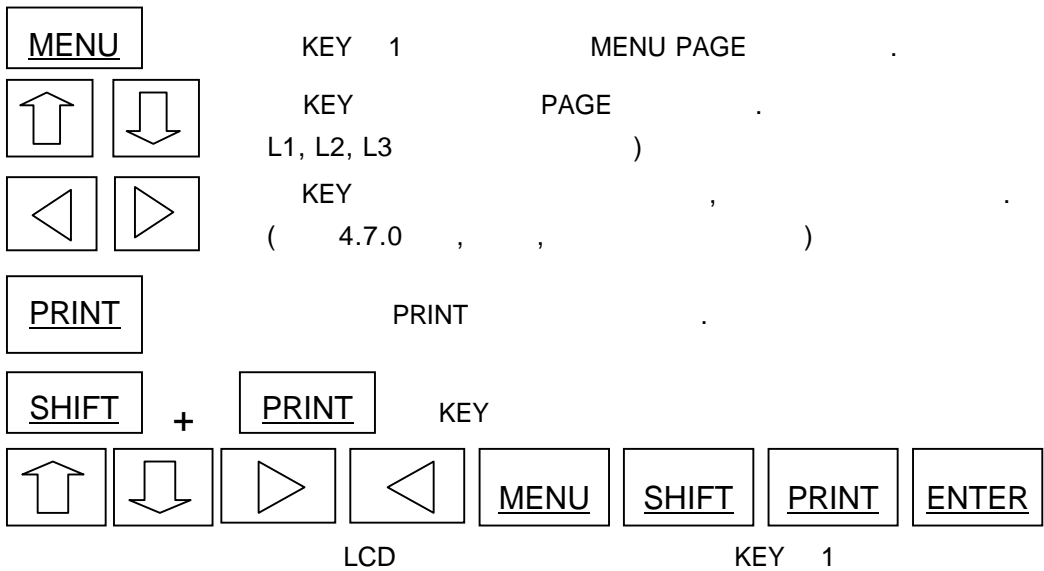
4.7

MENU PAGE OSCILLOSCOPE

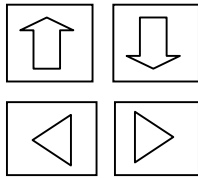
PAGE

4.6.11

4.7.1 KEY



4.7.0

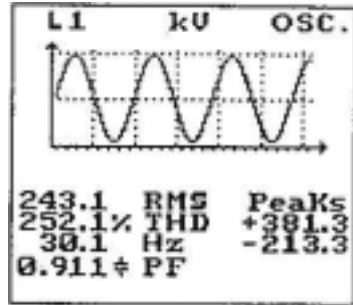


KEY (L1, L2, L3)

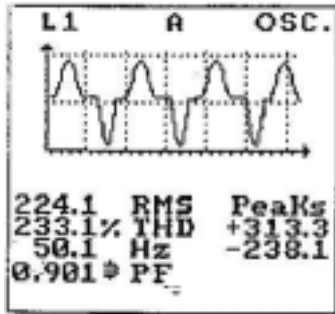
KEY (V, A, V, A)

4.7.2

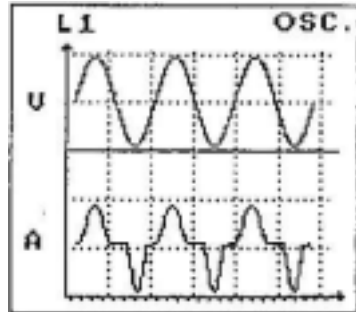
- 1.
2. RMS
3. (THD)
- 4.
5. /



4.7.1 Graphic voltage wave



4.7.2 Graphic current wave



4.7.3 Graphic voltage and current wave

4.8

MENU PAGE
PAGE

4.8.1 KEY



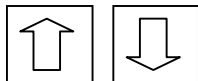
KEY 1

MENU PAGE



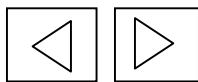
1 :

가



KEY
가

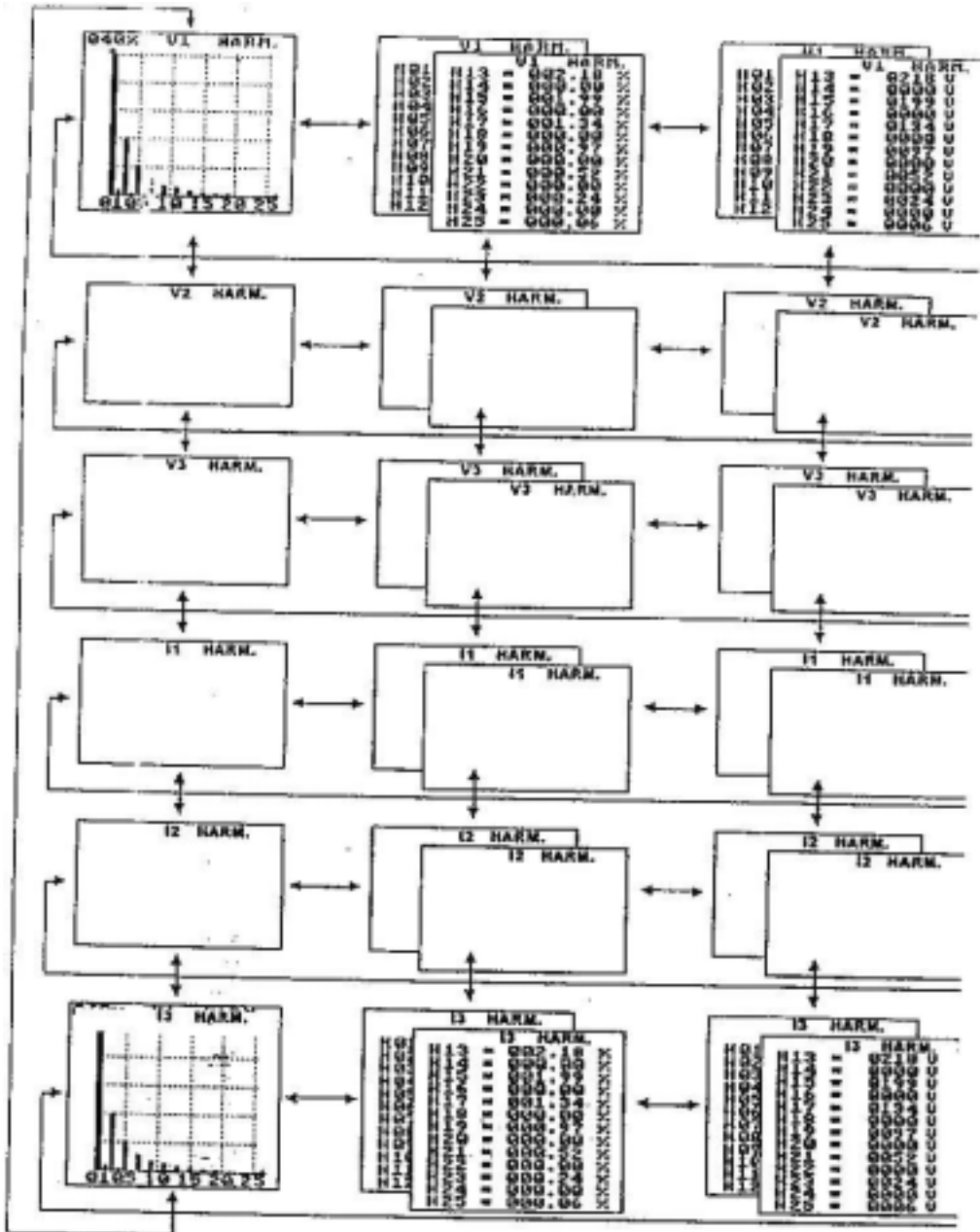
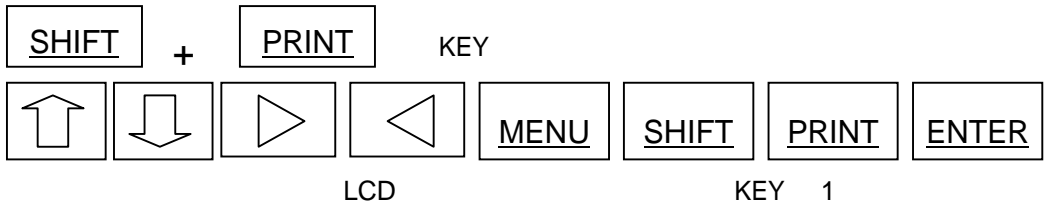
80%~30%



KEY 가



PRINT



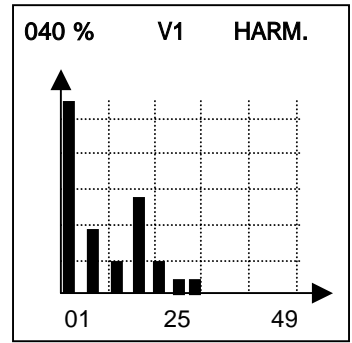
4.8.0 Harmonics display page

4.8.2

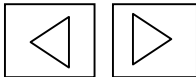
50

50

- | | | |
|----|---|----------------|
| 1. | R | V1-N |
| 2. | S | V2-N |
| 3. | T | V3-N |
| 4. | R | I ¹ |
| 5. | S | I ² |
| 6. | T | I ³ |



4.8.1



KEY

4.8.2

가 가

V1 HARM.		V1 HARM.	
H01		H13	002.18 %
H02		H14	000.00 %
H03		H15	001.99 %
H04		H16	000.00 %
H05		H17	000.00 %
H06		H18	001.34 %
H07		H19	000.00 %
H08		H20	000.97 %
H09		H21	000.00 %
H10		H22	000.52 %
H11		H23	000.00 %
H12		H24	000.24 %
		H25	000.00 %

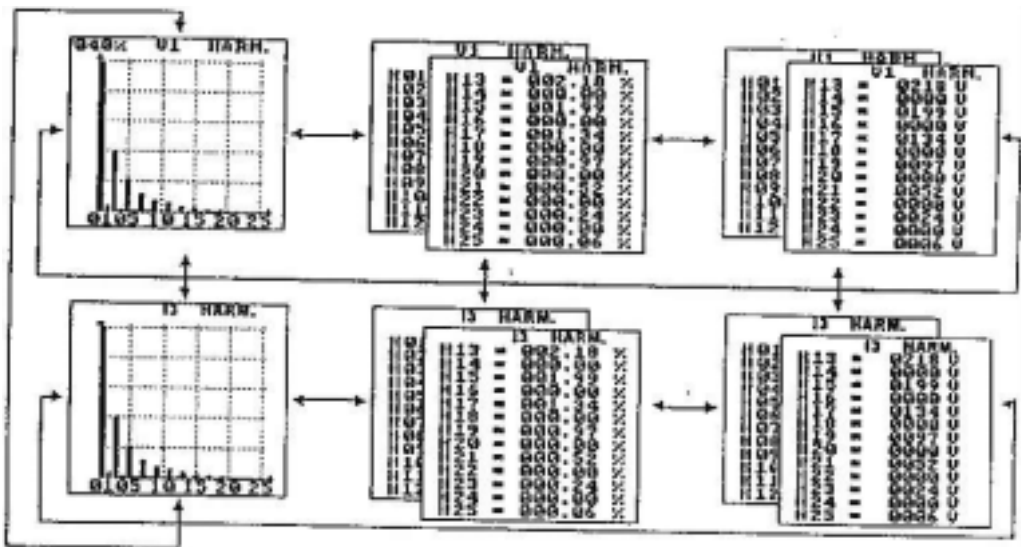
4.8.2

V1 HARM.		V1 HARM.	
H01		H13	0218 U
H02		H14	0000 U
H03		H15	0199 U
H04		H16	0000 U
H05		H17	0000 U
H06		H18	0134 U
H07		H19	0000 U
H08		H20	0097 U
H09		H21	0000 U
H10		H22	0052 U
H11		H23	0000 U
H12		H24	0024 U
		H25	0006 U

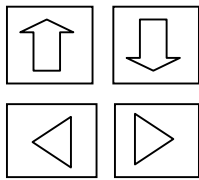
4.8.3

4.8.3

()



4.8.4

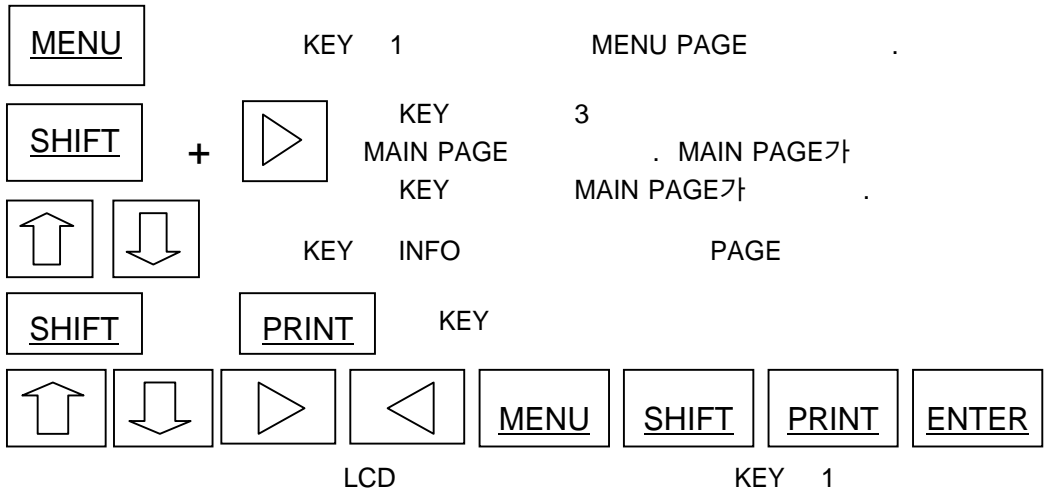


KEY

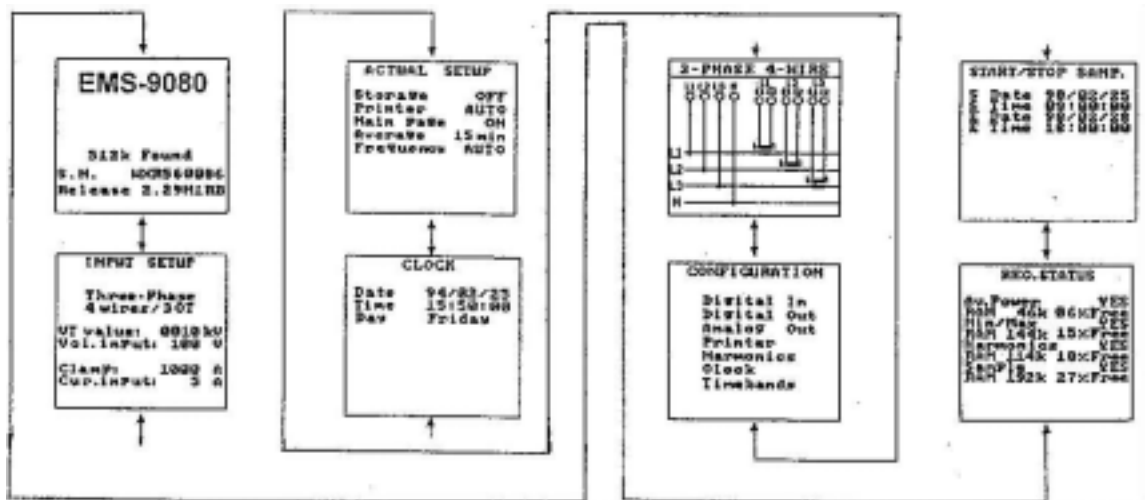
KEY

4.9 PROFILE () -

4.10 INFO PAGE



4.10.0 INFO PAGE



4.10.0 Operating status Information page

4.10.2 INFO PAGE

RAM

ON

-
- RAM
-
-

SETUP

- MODE
-
- PT
- PT 2
- CLAMP RANGE
- CLAMP 2

•

- OPTION

SETUP

- (ON. OFF. WAIT)
- (AUTO.OFF)
- MAIN PAGE (ON.OFF)
- (MIN)

EMS - 9200K

512k Found

S. N. W13FA0081

Release 2.29M1RB

4.10.1

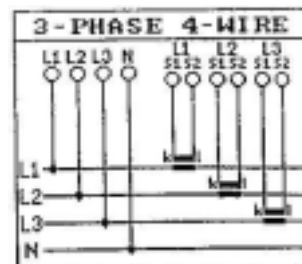
INPUT SETUP

Three-Phase
4wires/30T

UT value: 0010kV
Vol.inPut: 100 U

Clamp: 1000 A
Cur.inPut: 5 A

4.10.2



4.10.3

CONFIGURATION

Digital In
Digital Out
Analog Out
Printer
Harmonics
Clock
Timebands

4.10.4

ACTUAL SETUP

Storage OFF
Printer AUTO
Main Page ON
Average 15min
Frequency AUTO

4.10.5

- : / /
- : / /
-

CLOCK	
Date	94/02/25
Time	15:50:00
Day	Friday

4.10.6

RAM

- RAM , (/ / , / /)
- RAM . (/ / , / /)

START/STOP SAMP.	
S Date	98/02/25
S Time	08:00:00
E Date	98/02/28
E Time	18:00:00

4.10.7



RAM

- (YES/NO)
- RAM
- (%)

REC.STATUS	
AV.POWER	YES
RAM 46K	06%Free
Min/Max	YES
RAM 144K	15%Free
Harmonics	YES
RAM 114K	18%Free
Sample	YES
RAM 192K	27%Free

4.10.8

5

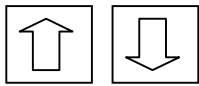
MENU PAGE	SETUP	<u>ENTER KEY</u>
	5.0	가
		KEY "YES"
	<u>ENTER KEY</u>	

가
PC (SOFTWARE)

<p>The instrument doesn't measure print record and communicate With PC during the programming state continue</p>
<p>YES</p>

4.10.9

5.1 KEY

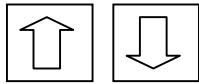


KEY YES/NO

. (,)

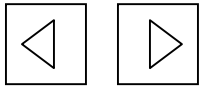


(Enter)



KEY

()



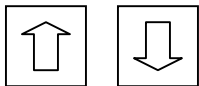
KEY

KEY .
MENU PAGE



KEY

5.1



KEY 1

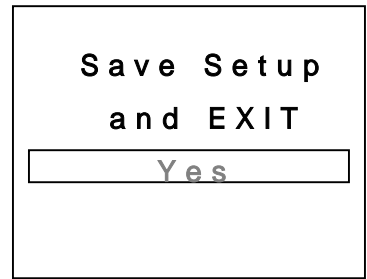
“YES”

,”NO”

ENTER KEY

“CONTINUE”

SETUP



5.1

5.2 SETUP

- MAIN :
- :
- :
- :
- RAM : RAM
- CLOCK :
- TIME BAND :
- IN/OUT :

(OPTION)



5.2



KEY

MENU PAGE

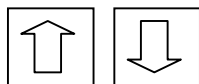
가

5.3 MAIN

•

C/T CLAMP
(20A)

, FLEXIBLE CT



KEY



KEY

. (5.3.2,5.3.3,5.3.4)

MAIN	
<input type="text" value="Curr. In"/>	<input type="text" value="Volt"/>
Volt. In.	Direct
En. Count	Fast
B. Light	060
Syn. Hz	Auto
Hz	5000
Language	Eng.
Previous	

Current Transducers With Voltage output	
<input type="text" value="Range A"/>	<input type="text" value="0100"/>
Output V	1
Linear	Fixed5
Previous	

Current Transducers With Current output	
<input type="text" value="Range A"/>	<input type="text" value="0800"/>
Output V	05
Linear	Fixed5
Previous	

5.3.1

- : (600VAC) PT . PT
- EN : MODE
- SLOW : 가
- 20 .()
- FAST : 가
- 6 . MODE
- B : .
- SYN. Hz : LINE MODE .
- AUTO : R LINE
- 가
- FIX :
- (Hz) :
- (LANGUAGE) : , ,
- : SETUP PAGE

KEY MAIN PAGE

5.3.1 CT CLAMP () 5.3.2

- RANGE A : CT CLAMP (1000A)
- OUTPUT V : CT CLAMP (1,2,3 10V 가)
- LINEAR : CLAMP MODEL
- PREVIOUS : PAGE

5.3.2

Current Transducers With Voltage output	
<input type="text" value="Range A"/>	<input type="text" value="0100"/>
Output V	1
Linear	Fixed5
Previous	

5.3.2 CT CLAMP () 5.3.3

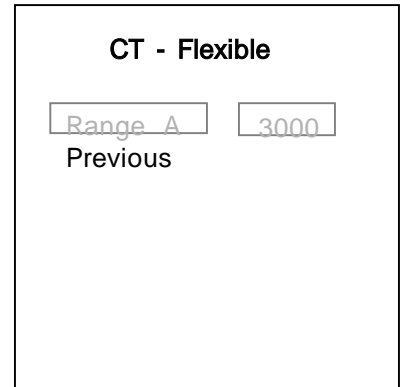
- RANGE A : CT CLAMP
- OUTPUT A : CT (1,5 20A)
- LINEAR : CT MODEL
- PREVIOUS : PAGE

5.3.3

Current Transducers With Voltage output	
<input type="text" value="Range A"/>	<input type="text" value="0100"/>
Output V	1
Linear	Fixed5
Previous	

5.3.3 FLEXIBLE CLAMP

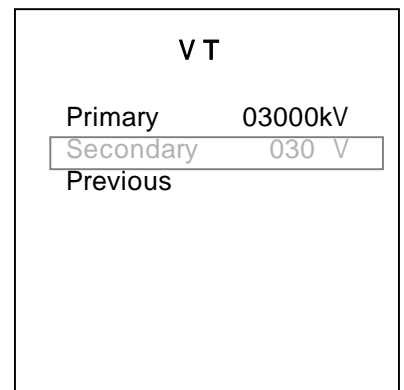
- RANGE : FLEXIBLE CLAMP
- (100,300,1000,3000A 가)



5.3.4

5.3.4 PT

- MAIN PAGE VT VAL 5.3.5
- 1 : 1 (600VAC)
- 2 : PT 2



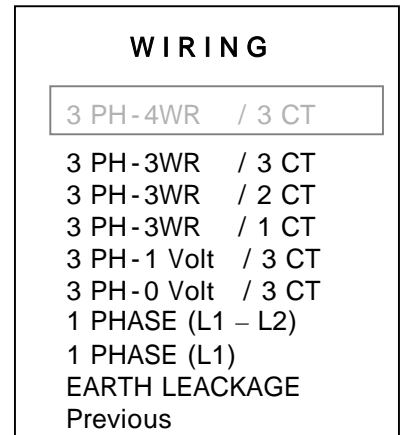
5.3.5

MENU KEY MAIN PAGE

5.4 MODE

5.4.1

- 3 4 / 3 CT
- 3 3 / 3 CT
- 3 3 / 2 CT
- 3 3 / 1 CT
- 3 / 3 CT
- 3 3 / 1 CT
- 2 (R,S) (3)
-
- DC
-



5.4.1

MENU KEY MAIN PAGE

5.5 COMMUNICATION PARAMETERS

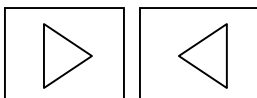
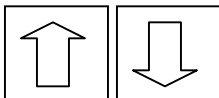
- B. RATE
- : 300,600,1200,4800,9600
- RARITY (5.5.1)
- BIT
- STOP
- ADDRESS
- PREVIOUS(setup)

SERIAL PARAMETER TABLE			
PARITY	NONE	EVEN	ODD
BIT	8-9	8	8
STOP	1	1	1

5.5.1

5.6 RAM

- EMS-9200K RAM PARAMETER PAGE
- PARAMETER
- 가
- DOWN LOAD MIN/MAX
- DOWN LOAD
- AV.POWER : /
- TIME MIN(AV.POWER ONLY) : () 1,5,15,30,60
- MIN/MAX : /
- TIME MIN(MIN/MAX ONLY) : MIN/MAX
- RAM MIN/MAX
- VALUE(MIN.MAX ONLY) :
- HARMONICS : RAM
- SAMPLE : SAMPLE
- TIMES(SAMPLE ONLY) : ()
- VALUES(SAMPLE ONLY) :



COMMUNICATIONS	
B. Rate	9600
Parity	NONE
Bit	8
Stop	1
Address	01
Previous	

5.3.4

- START/STOP(SMPLE ONLY) : (5.6.2)
- S DATE : (, ,)
- S TIME : (, ,)
- E DATE : (, ,)
- E TIME : (, ,)
- PREVIOUS : MAIN PAGE

START / STOP SAMP.	
S Date	94/02/25
S Time	08:00:00
E Date	94:02:28
E Time	18:00:00
Previous	

5.6.2

5.7 CLOCK/CALENDAR (5.7.1)

- DATE : (, ,)
- TIME : (, ,)
- DAY :
- PREVIOUS : SETUP PAGE

CLOCK	
Date	94/02/25
Date	15:50:00
Time	Friday
Day	
Previous	

5.7.1

MENU ENTER

5.8 time BANDS()

5.9 INPUT/OUTPUT MENU()

6

- 가 가
- 가 OFF ,
-

SHIFT + PRINT KEY

PRINT KEY PAGE가

- (MEASURED VALUES) :
- (HARMONICS VALUES) :
- (AVERAGE POWER) : (SETUP)
- / (MIN/MAX VALUES) : /
- (TIME BAND) :
- SET UP : LIST
- (SUDMMARY Ph1, Ph2, Ph3) : 50 , ,
- EXIT :

6.1 KEY

SHIFT + **PRINT** KEY

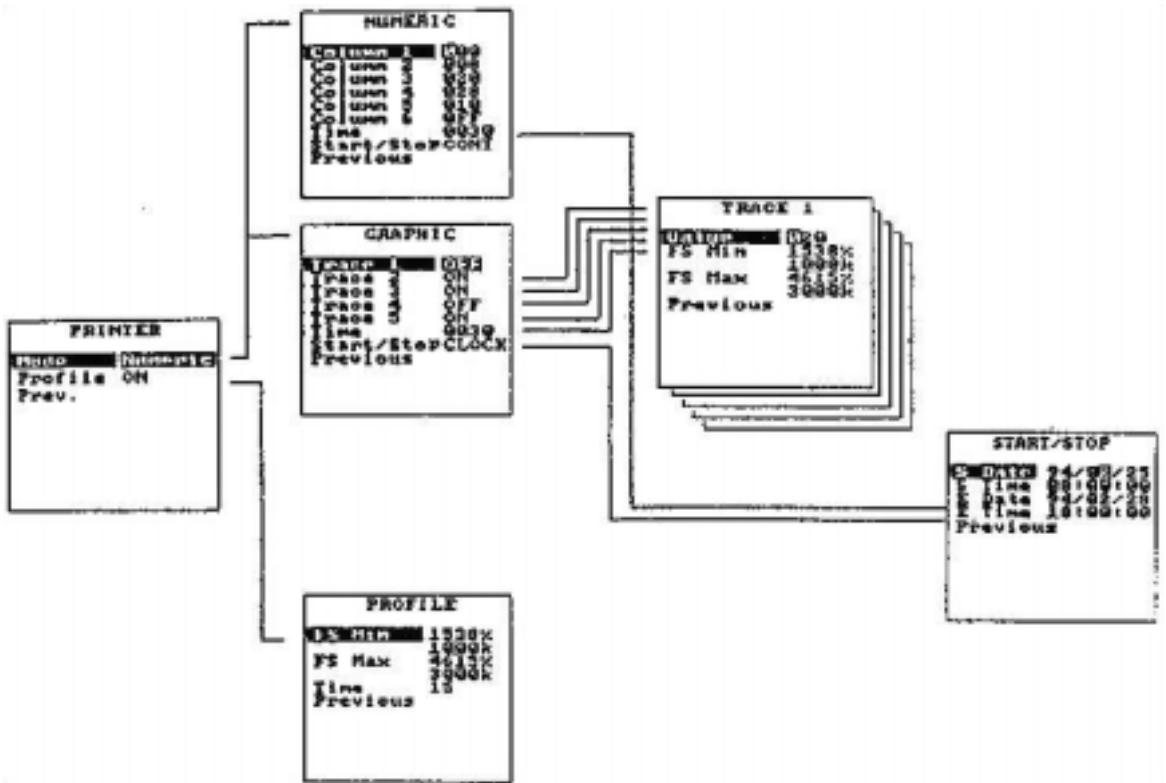
PRINT KEY MENU

↑ **↓** MENU

ENTER ENTER KEY

6.2

PRO 40 DATA DATA 가 가 가





6.2



6.2.1

- SETUP PRINTER
- MODE
 - NONE :
 - NUMERIC :
 - GRAHIC :
 - ALARM :
- PROFILE : , 가 00:00
 (ENTER KEY PROFILE “ON” .)
- PROVIOUS : SETUP PAGE
- MENU KEY MENU PAGE PRINT

6.2.2

- 1~6 가
- PRINTER PRO40 42 COLUMN PRINTER 6 가

  KEY COLUMN 1 COLUMN 6

  KEY
 (V,V1,V2,V3,,I1,-----) 6 COLUMN

- TIME : PRINT .()
 10 , 15 , 30 , 60 , 120 , 300 , 600 , 900 가

• START/STOP :

• CONT :

• COLCK :

COLCK  KEY

• PROVIOUS : SETUP PAGE

6.2.3 (GRAPHIC)

- 1~5 가 가

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