사용설명서

EDDY-CURRENT COATING THICKNESS TESTER

DX-100

SECHANG INSTRUMENTS

CO NTENTS

1.

.

(1)

```
DERMESS                                              V- A- 4.    1- 3
        model                                        DX- 100
            ' 96YR. , 01MO. , 30DT. ,  13HR,  30M
ELEC  FINE  INSTRUMENTS  CO. , LTD.
```

　　　　　　　　　　　　　　　　　　　　　　　　.

　　　5　　　　　　　　　　　　　　　　　　.　　　　　　　　　(1)　　　(3)

　　.

(2)

```
DERMESS                                              V- A- 4.    1- 3
        model                                        DX- 100
            ' 96YR. , 01MO. , 30DT. ,  13HR,  30M
CHECK   ROM, RAM, OSC  E1,  E2,  M AND OUT E.
```

　5　　　　　　　　　　　　　　　　　　. 5　　　　　　　,

　　.

　　　　　　　　　　　　　　　　　　　　　　,　　　　　　,

(3)

```
CHECK       OK
            ' 96YR. , 01MO. , 30DT. ,  13HR,  30M
```

(4)

```
CH /  S /  UT /  COAT /  BASE /  PROBE /  VD /  MM /  C /  NUB
 1
 2
ENTER     NUMBER
Scrawling
```

　　2-1　　　　　　　　　　　　　　　　　　　　　　　.

　　　　　　　　　　　　　　ENTER/YES　　　　　　　　　.

(5)

2-2

```
CH / S / UT / COAT / BASE / PROBE / VD / MM / C / NUB
 1
CH / TYPE / MIN. STATS MAJ./ L LIMT    U VD    /NUB
A
  ENTER    NUMBER
```

```
TUNING                    /   YR        MO        DT
CALIBRATION    /      YR MO         DT
S SCALE                  -                um
AUTO DI                  -                um
CO. NAME
PARTS NBR                             LOT NBR
B    DATE                  /   YR        MO        DT
  DATA
```

.   2-2   [A]

,   [B]   .

ENTER/YES   .

(6)

3-1

```
1 : MEASURE             2 : ITEM          3 : CAL
4 : COPY               5 : TUNING         6 : DATA INPUT
7 : SIMPLE CAL      8 : BASE CORRECT 9 : PATTERN

        SELECT NUMBER
```

3-1   .

2 ENTER/YES   ITEM   .

ITEM   .

ERROR   .

(7)

4-1

```
1 :     EDDY CURRENT (E)
2 :     ELECTROMAGNET (M)
3 :     NICKEL (N)

ENTER  NUMBER  OF  SYSTEM              LAST :
```

4-1   .

ENTER/YES

.

4-1   .

.

(8)

4-2

```
1: mm          2: um        3: um          4:              5: mil
6: uIN

ENTER THE  NUMBER  OF  UNIT                          LAST:
```

4-2   ENTER/YES

.

ENTER/YES   .

.

(9)

4-3

```
1: Zn           2: Sn        3: Cu        4: Agl
5: Cr           6: Al        7: Ni        8: Cd
9: Fe          10: Mo       11: SnPb     12: NC

ENTER THE  NUMBER  OF  COSY                    LAST:
```

4-3   ENTER/YES
.   ENTER/YES
.   .

(10)   (   )

4-4

```
1: Cu           2: Fe        3: Al        4: Mg
5: Ti           6: An        7: BR        8: SUS
9: MoFe        10: NC       11: NF

ENTER THE  NUMBER  OF  BASE                    LAST:
```

4-4   ( )   ENTER/YES

.   ENTER/YES

.   ( )   .

(11)

4-5

1 : MP	2 : SP	3 : RP	4 : SM
5 : SR	6 : TSM	7 : TP	8 : uP

ENTER NUMBER OF PROBE   LAST:

4-5   ENTER/YES

.   ENTER/YES

.   .

(12)

4-6

1 : A	2 : B	3 : C	4 : D

ENTER THE NUMBER OF PROBE   RANGE   LAST:

4-6   ENTER/YES

.   ENTER/YES

.   .

(13)

4-7

1 : S um	2 : S um
3 : S um	
A: PRINT OUT CAL. CURVE.	B: MAKE USER CURVE.

SELECT ONE   LAST:

4-7

ENTER/YES   .

ENTER/YES   .   .

(14)

5-1

```
CH    S    UT   COAT/BASE    PROBE           VD    MM      C      NUB
1     E    mil    Zn / Fe            MP-D    MOP     S      0


PLACE   PROBE   ON   TUNING   COPPER
AND   PRESS   "ENTER".
```

5-1   ,
ENTER/YES   .

                                         .

                                    .

                         .

                                                          ,

                                    , LCD

                         .   PROBE ERROR   .

                                    .

5-2

```
1 : REPLACE   PROBE
2 : RETURN TO "HOME"


TUNING   IS   NOT   AVAILABLE
```

                    ,   5-2   .

                              .

                         5-3   .

                    .

5-3

```
CH   S   UT  COAT/BASE   PROBE        VD   MM     C    NUB



TUNING  IS OVER
BUT  PROBE  IS  WORN  AWAY.
```

.

1)
2)
3)   2   3   (
   .)

.

(15)

6-1

```
1 : STANDARD.                    2 : PLURAL NEAL.
3 : PLURAL MAX.                  4 : PLURAL MIN.
5 : DIVISIONAL MAX.             6 : DIVISIONAL MIN.

ENTER  NUMBER  OF  CAL.  TYPE                        LASE
```

6-1   ENTER/YES
            .   ENTER/YES
      .   .

                                         5
6-1   5   10   . (
                              .)

.

(16)

6-2

```
   STANDARD  CALIBRATION
SCALE RANGE   ------------               um
LAST              um          NEW           um

WHAT IS  THE  MINIMUM VALUE  OF  THICKNESS  STANDARD ?
```

6-2

ENTER/YES   .

ENTER/YES   .

    .

        0   .

(17)

6-3

CH	S	UT	COAT/BASE	PROBE	VD	MM	C	NUB

PLACE PROBE ON AND PRESS "ENTER".

6-3   ENTER/YES

    .   4 5   .

                               .

(18)

6-4

SCALE RANGE	------------				um		
LAST		um		NEW		um	

WHAT IS THE MINIMUM VALUE OF THICKNESS STANDARD

(16)   .

(19)

6-5

CH	S	UT	COAT/BASE	PROBE	VD	MM	C	NUB

PLACE PROBE ON AND PRESS "ENTER".

6-5   ENTER/YES

    .   5   .

                               .

1   .

(20)

6-6

```
   STANDARD  CALIBRATION
SCALE RANGE   ------------                      um
LAST                um              NEW            um

WHAT IS  THE  VALUE  OF  THICKNESS  STANDARD ?
```

6-6   STOP   .
            2   (4), (5)
.   9   .   9   STOP
.

6-7

```
1 : AUTO SETTING (MANUAL)
2 : SAME AS  LAST
3 : SETTING

ENTER  THE  NUMBER
```

6-7   1   , 2
, 3   .
.
3   .
            2   .

3-1

```
1 : MEASURE            2 : ITEM            3 : CAL
4 : COPY              5 : TUNING          6 : DATA INPUT
7 : SIMPLE CAL      8 : BASE CORRECT 9 : PATTERN

SELECT NUMBER
```

3-1   .   .
    1   ENTER/YES   .

,   ,

7-1

```
Co. NAME              LOT NO.
SAMPLE NO.
CONFIRM ABOVE SETTING
```

7-1   , CLEAR/NO   .

.

ENTER/YES   .

7-2

```
CH   S   UT  COAT/BASE   PROBE        VD    MM     C    NUB


USE  DATA  BANK  ?
```

7-2   .

ENTER/YES   .   CLEAR/NO

.

ENTER/YES   .   .

.

CLEAR/NO   .   .

/

7-3

```
CH   S   UT  COAT/BASE   PROBE        VD    MM     C    NUB


USE  AUTO  DATA  INPUT  MODE  ?              Y : AUTO
                                             N : MANUAL
```

7-3   .

ENTER/YES   , CLEAR/NO

.

, CLEAR/NO

.

ENTER/YES   .

.

CLEAR/NO   .

ENTER/YES   .

                                                                        .

                                        .

                                  ,

        .   .

                                                            CLEAR/NO

                        .

CH	S	UT	COAT/BASE	PROBE	VD	MM	C	NUB
					TC			
	1		-.33/ um				R.B	
PLACE PROBE ON SAMPLE AND PRESS "ENTER".								

        7-4   .

(1)   .

(2)   . (0.1   )

                            .

(2)   .

                                                . (2)   .

                                        .   7-5

                            LED   .

(3)   .

CH	S	UT	COAT/BASE	PROBE	VD	MM	C	NUB
					TC			
	1		8.52/ um	8.52 um			R.B	
PLACE PROBE ON SAMPLE AND PRESS "ENTER".								

        7-5   ,   7-4   .

                                                            ENTER/YES

                        .

CLEAR/NO   .

1)   ,   .

          7-4   .

2)   .

2.

.

.

Ⅲ   2- 1 (1) (2)

2- 2 (3) (7)

( )

(1)

1

```
CH    S   UT  COAT/BASE   PROBE          VD   MM      C    NUB
                          /
        1  - ERROR                             R.B
PLACE   PROBE   ON  SAMPLE AND  PRESS   "ENTER".
```

　　　　　　　　　　　　　　　　　　　　　　　　　　　.

　　　　　　　　,　　　　　　　　　　　　　　　　　　　.

　　　　　　1　　　S UB　　　　　　　.

(2)　　　　Ⅲ

2

```
1 : TUNING                        2 : CALL
3 : SIMPLE                        4 : PRINTER SET
5 : STAT ITEM SETTING  6 : STAT HEDA.   PRINT OUT

SELECT NUMBER
```

```
 7 : STAT LIMITS SET        8 : INPUT RANGE SET
 9 : VALID DATA RANGE SET 10 : CAL CURVE PRINT
11 : M UNIT CHANGE        12 : LOT NO
13 : MEASUREMNET MODE     14 : TIME ADJUST
15 : PATTERN SETTING
```

　　　　　　　　　　　　　　　　　　　　.

　　　　　　2　　　　　　　　2   ENTER/YES

　　　.

(3)

6- 1

```
1 : STANDARD.              2 : PLURAL NEAL.
3 : PLURAL MAX.                  4 : PLURAL MIN.
5 : DIVISIONAL MAX.              6 : DIVISIONAL MIN.

ENTER  NUMBER  OF  CAL.  TYPE                          LASE
```

　　　　6-1　　　　　　　　.　　　　　　　　　.

　　1 ENTER/YES　　　　　　　　　　　　　.

　　　　　(5　　) 5   10　　　　　　　.

　　6-1　　　　　　. (

.)

.

(4)

6-2

```
   STANDARD  CALIBRATION
SCALE RANGE : - - - - - - - - - - - -                um
LAST :              um              NEW              um

ENTER  MIN.  THICK.  OF  STANDARD
```

6-2

ENTER/YES   .

ENTER/YES   .

.

0   .

(5)

6-3

```
CH    S   UT  COAT/BASE   PROBE        VD   MM    C    NUB

PLACE  PROBE  ON  SPMPLE  AND  PRESS   "ENTER".
```

6-3   ENTER/YES

.   4   5   .

.

(6)

6-4

```
   STANDARD  CALIBRATION
SCALE RANGE : - - - - - - - - - - - -                um
LAST   :           um              NEW              um

ENTER  MAX.  THICK.  OF  STANDARD
```

6-4

ENTER/YES   .

ENTER/YES   .

．

(7)

6-5

```
CH    S   UT  COAT/BASE   PROBE        VD   MM    C    NUB
                          /

PLACE  PROBE  ON  SAMPLE  PRESS  "ENTER".
```

6-5   ENTER/YES

．   5   ．

．

1   ．

(8)

6-6

```
   STANDARD  CALIBRATION
SCALE RANGE : ------------               um
LAST :      99999   um          NEW        um

ENTER  THE  VALUE  OF  THICKNESS  STANDARD
```

6-6   STOP   ．

2   (6), (7)

．   9   ．   9   STOP

．

(9)

6-7

```
1 : AUTO SETTING (MANUAL)
2 : SAME AS LAST
3 : SETTING

ENTER  THE  NUMBER
```

6-7   1   , 2

, 3   ．

．

3 .

2 .

.

3.   ,

.

Ⅲ   3- 1 (1)   (2)

3- 1 (3)   (4)

(   )

(1)

1

```
CH    S   UT  COAT/BASE   PROBE        VD   MM    C    NUB
                          /
         1  -  ERROR                              R.B
PLACE   PROBE   ON   SAMPLE   AND   PRESS   "ENTER".
```

.

,   .

         1   S UB   .

(2)   III

2

```
1 :  TUNING                            2 :  CALL
3 :  SIMPLE                            4 :  PRINTER SET
5 :  STAT ITEM SETTING  6 :  STAT HEDA.   PRINT OUT

SELECT  NUMBER
```

```
 7 :  STAT LIMITS SET        8 :  INPUT RANGE SET
 9 :  VALID DATA RANGE SET 10 :  CAL CURVE PRINT
11 :  M  UNIT CHANGE         12 :  LOT NO
13 :  MEASUREMNET MODE   14 :  TIME ADJUST
15 :  PATTERN SETTING
```

.

         2   4   ENTER/YES

         .

                                                            ,
                                                 .
                                     .

(3)

8- 1

```
DERMESS                                          V- A- 4.   1- 3
              MODEL           DX- 100
               '96 YR 03 MO          12 DAY    09 HR    30 M .

USE  PRINTER ?
```

8-1   .   ENTER/YES   ,

CLEAR/NO   .

ENTER/YES :   .   .

CLEAR/NO :   .

.

(4)

8-2

```
1: PRINT OUT 1 DATA PER LINE
2: PRINT OUT 5 DATY PER LINE
3: EXCEPT READINGS AND STAT INFO.          LAST
ENTER NUMBER OF PRINT OUT MODE
```

8-2   .   ENTER/YES   .

.

1 data per line

1	9.55	9.42	9.52	9.58	9.47	um
2	9.46	9.42	9.57	9.55	9.61	um
11	9.66	9.73	9.53	9.61	9.63	um
16	9.46					

5 data per line

1	9.65	um
2	10.2	um
3	3.72	um
3 --- DATA CANCEL ---		
3	9.61	um
4	9.57	um
5	9.57	um

4.

.

Ⅲ　　　　　　　4- 1 (1)　(2)

4- 1

(　　　　　)

(1)

```
CH    S    UT  COAT/BASE   PROBE         VD   MM      C    NUB
                           /
        1  -  ERROR                           R.B
PLACE   PROBE   ON  SAMPLE   AND   PRESS   "ENTER".
```

.

,   .

1   S UB   .

(2)   Ⅲ

```
1 : TUNING                              2 : CALL
3 : SIMPLE                              4 : PRINTER SET
5 : STAT ITEM SETTING  6 : STAT HEDA.   PRINT OUT

SELECT NUMBER
```

```
 7 : STAT LIMITS SET          8 : INPUT RANGE SET
 9 : VALID DATA RANGE SET 10 : CAL CURVE PRINT
11 : M  UNIT CHANGE          12 : LOT NO
13 : MEASUREMNET MODE  14 : TIME ADJUST
15 : PATTERN SETTING
```

.

2   6   ENTER/YES

.

.

```
CH    S    UT  COAT/BASE   PROBE         VD   MM      C    NUB
 3    E   um    Zn / Fe        MP-D      TC    MOP   U 0
CH    TYPE   MIN.STAT  MAJ.L LIMIT  U    VD           NUB
 3    N      100       600      5.00 - 10.0    BSPH        0
TUNING         '96YR03MON15DAY
CAL            '96YR03MON15DAY
U SCALE        .000-16.3UM
CO.NAME
SAMPLE NO.              LOT NO.
M  NUMBER              0
```

.   3-1, 3-2

.   .

,

.

5.

.

(1)

```
CH    S    UT   COAT/BASE    PROBE           VD    MM     C     NUB
                              /
        1  -  ERROR                                  R.B
PLACE   PROBE   ON   SAMPLE   AND   PRESS   "ENTER".
```

.

,   .

1   S UB   .

(2)   Ⅲ

```
1 : TUNING                         2 : CALL
3 : SIMPLE                         4 : PRINTER SET
5 : STAT ITEM SETTING  6 : STAT HEDA.   PRINT OUT

SELECT NUMBER
```

```
 7 : STAT LIMITS SET        8 : INPUT RANGE SET
 9 : VALID DATA RANGE SET 10 : CAL CURVE PRINT
11 : M UNIT CHANGE         12 : LOT NO
13 : MEASUREMNET MODE  14 : TIME ADJUST
15 : PATTERN SETTING
```

.

2   5   ENTER/YES

.

, (3)   .

9-1   .

```
1 : DATA PROCESS   AND  DELETE  MEASUREMENT  DATA
2 : DELETE   DATA
3 : MODIFY  DATA PROCESS   ITEM ONLY
ENTER   THE   NUMBER
```

1 ENTER/YES :   .

2 ENTER/YES :   .

3 ENTER/YES :   .

(3)

9-2

```
1 : USE DATA BANK
2 : DO NOT USE DATA BANK
LAST
SELECT NUMBER
```

        9-2   .   ENTER/YES
        .   ENTER/YES   .
1 ENTER/YES :   ,   ,
2 ENTER/YES :   ,   ,
2   .

(4)

9-3

```
1 :    N
2 :    N-1
3 :    DELETE STATISTICS ITEMS
SELECT NUMBER
```

        9-3   .   ENTER/YES
   .

1 ENTER/YES :   .
2 ENTER/YES :   .
3 ENTER/YES :   .

3   .

(5)

9-4

```
READINGS       ▓▓▓▓▓                      BANK BAL   ▓▓▓▓▓
                                         NEW
LAST
ENTER MAJ. STAT NUMBER
```

9-4   .   ENTER/YES

.   ENTER/YES   .

ENTER/YES   .

.   ERROR

.   9-4 (1)   .

.   9-4 (2)   .

(6)

```
MAJ .  STAT  NO.  ▪▪▪▪▪
                                         NEW
LAST
ENTER  MAJ .  STAT  NUMBER
```

9-5   .   ENTER/YES

.   ENTER/YES   .

ENTER/YES   .

.   ERROR

.   9-5 (3)   .

(7)

```
SCALE   RANGE   ▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪              um
LAST                                    NEW                    um
ENTER  THE  UPPER  LIMT  VALUE
```

10-1   .   ENTER/YES

.   ENTER/YES   .

ENTER/YES   .

STOP   .

STOP   (9)   .

.   ERROR

.   10-1(4)   .

(8)

```
LOWER  LIMIT  VALUE       ▓▓▓▓▓
SCALE  RANGE                                           um
LAST                              NEW                   um

ENTER  THE  UPPER  LIMIT  VALUE
```

10-2   .   ENTER/YES
          .   ENTER/YES   .
                              ENTER/YES   .
                              STOP   .
STOP   (9)   .
                                              .   10-2(4)
          .

,   10-2   (5)   .

(9)

```
ENTER BOUNDARY OF DATA INPUT RANGE
```

11-1   .
                    ENTER/YES   (10)
                    .
          CLEAR/NO   .   (13)
          .

                    OUT OF ACTIVE DATA RANGE, INPUT IT?
          . ENTER/YES   CLEAR/NO
          .

          .

(10)

11-2

```
LIMIT   RANGE
SCALE   RANGE                                          um
LAST                              NEW                  um

ENTER   BOUNDARY OF DATA LOWER LIMIT VALUE
```

　　　　　　　11-2　　　　　　　　　.　　　　　　　　　ENTER/YES
　　　　.　　　　　　　　　　　　　　　ENTER/YES　　　　　　　　.
　　　　　　　　　　　　　　ENTER/YES　　　　　　.
　　　　　　　　　　STOP　　　　　　　　.

STOP　　　　　　　(13)　　　　　　　　　　　　　　　.
　　　　　　　　　　　　　　　　　.　　　　　　　　　ERROR
　　　　.　　11-2 (6)　　　　　　　　　　　　　　.

(11)

11-3

```
LIMIT   RANGE
SCALE   RANGE                                          um
LAST                              NEW                  um

ENTER   BOUNDARY OF DATA UPPER LIMIT VALUE
```

　　　　　　　11-3　　　　　　　　　.　　　　　　　　ENTER/YES
　　　　.　　　　　　　　　　　　ENTER/YES　　　　　　.
　　　　　　　　　ENTER/YES　　　　　.
　　　　　　　　　STOP　　　　　　.

　　　　　　　　　　　　　　　　　　　.

(12)

11-4

```
                              -------------- um
CONFIRM ACTIVE DATA RANGE
```

　　　　　　　11-4　　　　　　　　　.　　　　　　　　　ENTER/YES

, CLEAR/NO .

ERROR .

.

,

.   .

(13)

```
                        DERMESS              V-A-4.          1-3
                        MODEL                DX-100
                        '96YR  01MO  18DAY  09HR  30M .
    USE   PRINTER  ?
```

8-1 . ENTER/YES ,

CLEAR/NO .

ENTER/YES . (14)

.

CLEAR/NO . (15) .

(14)

```
    1 : PRINT  OUT  1  DATA  PER  LINE
    2 : PRINT  OUT  5  DATY  PER  LINE
    3 : EXCEPT  READINGS  AND  STAT  INFO.          LAST
    ENTER  NUMBER  OF  PRINT  OUT  MODE
```

8-2 .

ENTER/YES .

(15)

```
    1 : NO  GRAPHS.                        2 : HISTOGRAM ONLY
    3 : MIN.(minor)   MEAN GRAPH ONLY
    4 : HISTOGRAM ONLY AND MIN.  MEAN GRAPH
    SELECT  NUMBER                        LAST
```

8-3 .

ENTER/YES   .

.

6.

(1)

```
CH   S   UT  COAT/BASE   PROBE        VD    MM     C    NUB
                          /
        1  -  ERROR                              R.B
PLACE  PROBE  ON  SAMPLE  AND  PRESS   "ENTER".
```

.

,   .

1   S UB   .

(2)   Ⅲ

```
1 : TUNING                          2 : CALL
3 : SIMPLE                          4 : PRINTER SET
5 : STAT ITEM SETTING  6 : STAT HEDA.   PRINT OUT

SELECT NUMBER
```

```
 7 : STAT LIMITS SET        8 : INPUT RANGE SET
 9 : VALID DATA RANGE SET 10 : CAL CURVE PRINT
11 : M  UNIT CHANGE        12 : LOT NO
13 : MEASUREMNET MODE  14 : TIME ADJUST
15 : PATTERN SETTING
```

.

2   13   ENTER/YES

.

(3)   Ⅰ

```
1 : STANDARD  DATA  INPUT   (MOP)
2 : MANUAL  D.I.          (MPE, MPA, MPI, MDA, MDI)
3 : AUTO  D.I.           (AOP, APE, APA, API, ADA, ADI)
ENTER  NBR.  OF  DI  SYSTEM                   LAST
```

12-1   .

ENTER/YES   .

1   2   .

1 :   1   .

.

2 : (10)   II   .

3 :

(4)   III

12-2

```
1 : ONE POINT        (AOP)                  2 : PLURAL MEAN  (APE)
3 : PLURAL MAX. (APA)        4 : PLURAL MIN.    (API)
5 : DIVISIONAL MAX. (ADA)  6 : DIVISIONAL MAX. (ADI)
ENTER  NUMBER  OF  DI  SYSTEM                                LAST
```

        12-2   .
    ENTER/YES   .
                            ENTER/YES   .

(5)

12-3

```
LIMIT   RANGE                 - - - - -            um
SCALE   RANGE            - - - - -            um
LAST                      um                  NEW
ENTER BOUNDARY VALUE OF DATA INPUT RANGE
```

        12-2   .
    ENTER/YES   .
                        ENTER/YES   .
                                (7)   .
                                    (6)   .

(6)

11-1

```
ENTER BOUNDARY OF DATA INPUT RANGE
```

        11-1   .   ENTER/YES   ,
            CLEAR/NO   .

CLEAR/NO   .

(7)

11- 2

```
LIMIT  RANGE              - - - - -      um
SCALE  RANGE   ████████   - - - - -      um
LAST                                um      NEW

ENTER  BOUNDARY OF DATA LOWER LIMIT VALUE
```

11-2   .

ENTER/YES   .

STOP   .

.   .

11-2 (2)   .

(8)

11- 3

```
LIMIT  RANGE              - - - - -      um
SCALE  RANGE   ████████   - - - - -      um
LAST                                um      NEW

ENTER  BOUNDARY OF DATA UPPER LIMIT VALUE
```

11-3   .

ENTER/YES   .

STOP   .

.

.

11-3 (3)   .

(9)

11- 4

```

                                     -------------- um
CONFIRM ACTIVE DATA RANGE
```

11-4   .   ENTER/YES

,   CLEAR/NO   .

ERROR   .

.

,
.   .

(10)   Ⅱ

12-4

```
1 : PLURAL MEAN       (MPE)  2 : PLURAL MAX.         (MPA)
3 : PLURAL MIN.        (MPI)  4 : DIVISIONAL MAX. (MDA)
5 : DIVISIONAL MIN.  (MDI)
ENTER  NUMBER  OF  DI  SYSTEM                              LAST
```

12-4   .

ENTER/YES   .

ENTER/YES   .

7.

(1)

```
CH    S   UT  COAT/BASE   PROBE        VD    MM      C    NUB
                          /
         1  -  ERROR                              R.B
PLACE   PROBE   ON   SAMPLE   AND   PRESS   "ENTER".
```

.

,   .

1   HOME   .

(2)

```
CH    S   UT  COAT/BASE   PROBE        VD    MM      C    NUB
                          /
                                                 R.B
USE   DATA   BANK?
```

13-1   ENTER/YES   .

(3)   .

CLEAR/NO   HOME   .

NO DATA   (3)   .

(3)

```
CH    S   UT  COAT / BASE   PROBE   VD   MM   C   NUB
 1                      /
 2                      /
ENTER     NUMBER
(Scrawling)
```

2-1   . 1   20

.

ENTER/YES   .

(4)   (   )

```
CH / S / UT /  COAT / BASE /   PROBE  / VD / MM / C / NUB
 1
CH / TYPE / MIN. STATS MAJ./ L LIMT   U VD    / NUB

ENTER     NUMBER
```

```
TUNING                    /  YR          MO      DT
CALIBRATION    /      YR MO          DT
S SCALE                   -                  um
AUTO DI                   -                  um
CO. NAME
PARTS NBR                                    LOT NBR
DATE                   /  YR          MO      DT
DATA
```

.   2-2   [A]

,   [B]   .

ENTER/YES   .

(5)   I

3- 1
```
1: MEASURE                2: ITEM              3: CAL
4: COPY                   5: TUNING            6: DATA INPUT
7: SIMPLE CAL        8: BASE CORRECT 9: PATTERN

      SELECT NUMBER
```

      3-1   .

         1 ENTER/YES   .

(6)   II

3- 2
```
1: MEASUREMENT MODE 2: DATA ITEM INPUT  3:DATA
4: DATA DELETE           5: TUNING                          6:CALI
7: SIMPLE CALI            8: MEASUREMENT    9:M UNIT CHANGE

SELECT NUMBER
```

      3-2   .

1   ENTER/YES   (9)

      .

(7)   ,   ,

7- 1

```
CO.   NAME
PARTS  NBR                                      LOT  NBR
YES   OR  NO
```

                7-1   ENTER/YES   ,
                                        CLEAR/NO   .

(8)

7- 2

```
CH    S   UT   COAT / BASE   PROBE   VD   MM   C   NUB
                           /
                           /
USING MEASUREMENT BANK
```

                                        (9)

  .
          7-2   ENTER/YES
                                                      .

                                CLEAR/NO   .
  .

(9)

7- 3

```
CH    S   UT   COAT / BASE   PROBE   VD   MM   C   NUB
                         /
AUTOMATIC   INPUT   SETTING?                    Y=AUTOMATIC
                                                N=MANUAL
```

                                                      .

          7-3   ENTER/YES
                                                      .

CLEAR/NO   ,
          ENTER/YES   .
                                                            .

8. I Ⅱ

I (Zn/Fe - D) Ⅱ

(1)

```
CH    S    UT   COAT/BASE   PROBE        VD    MM      C    NUB
3     E    um   Zn / Fe        MP-D   TC   MOP   S      1
2                                           MOP    S       0


ENTER   NUMBER
(Scrawling)
```

HOME   1   .

.

2   ENTER/YES   .

(2)

```
CH    S    UT   COAT/BASE   PROBE        VD    MM      C    NUB
2                                               MOP    S       0
CH    TYPE   MIN. STATS MAJ.  L LIMT              U/ VD          NUB

SELECTED   THIS   CHANNEL
```

```
2                     0        0          .00    - .  00
TUNING                  /    YR          MO       DT
CALIBRATION    /      YR MO        DT
S SCALE                      -                um
AUTO DI                      -                um
CO. NAME
PARTS NBR                                    LOT NBR
DATE                     /    YR          MO       DT
DATA             0
```

.   2   [A]

,   [B]   .

ENTER/YES   .

(3)

```
1: MEASUREMENT            2: DATA ITEM INPUT   3: DATA
4: DATA DELETE        5: TUNING                    6: DATA INPUT
7: SIMPLE CALI        8: BASE CORRECT   9: PATTERN

SELECT NUMBER
```

3-1   .   4

ENTER/YES   .

(4)

4

```
1 : CAL. ITEM COPY              2 : STAT. ITEM COPY
3 : CO. NAME COPY               4 : CHANNEL COPY

ENTER NUMBER AND PRESS "STOP" AFTER COPY
```

4   . 1   ENTER/YES

.

(5)

5

```
CH   S   UT  COAT/BASE   PROBE        VD   MM     C   NUB
 3   E   um   Zn / Fe       MP-D  TC   MOP   S     1
 2                                     MOP   S     0

ENTER   NUMBER
(Scrawling)
```

5   . 1   ENTER/YES

1   .

(6)

6

```
CH   S   UT  COAT/BASE   PROBE        VD   MM     C   NUB
 1   E   um     Zn / Fe       MP-D  TC   MOP   S     1

IS   THIS   CHANNEL   SELECTDE   ?
```

6   . ENTER/YES   (2)

.

(7)

4

```
1 : CAL.  ITEM COPY                    2 : STAT.  ITEM COPY
3 : CO.  NAME COPY                     4 : CHANNEL COPY

ENTER NUMBER AND PRESS  "STOP"  AFTER COPY
```
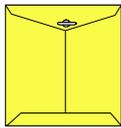
4   . STOP   (3)

.

DERMESS
DX-100

1   : 1997   1   7
2   : 2000   10   20

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.   ,
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Elec Fine Instruments

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121-220   364-38

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