



**DA**

**DA.23.07.12**



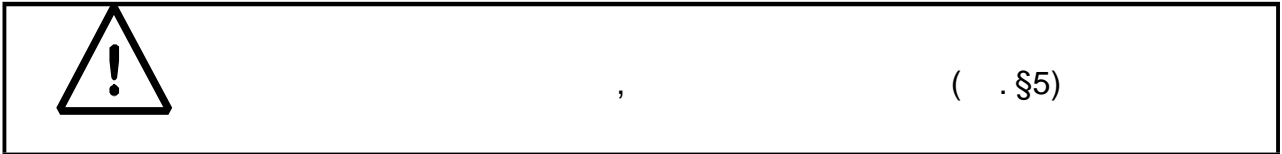
<b>1</b>	.....	<b>3</b>
<b>2</b>	.....	<b>4</b>
<b>3</b>	.....	<b>5</b>
<b>4</b>	.....	<b>6</b>
<b>5</b>	.....	<b>7</b>
5.1	.....	7
5.2	.....	8
5.3	.....	9
<b>6</b>	.....	<b>10</b>
6.1	.....	10
6.2	.....	10
<b>7</b>	.....	<b>11</b>
7.1	.....	11
7.2	.....	13
7.2.1	(AUT-CAL).....	13
7.2.2	(I-CAL).....	14
7.2.3	(E-CAL).....	14
7.2.4	(TEC-CAL).....	15
7.3	.....	16
<b>8</b>	.....	<b>17</b>
8.1	.....	18
8.2	( ).....	19
<b>9</b>	.....	<b>21</b>
<b>10</b>	.....	<b>23</b>
<b>11</b>	.....	<b>24</b>
<b>12</b>	.....	<b>25</b>
<b>13</b>	.....	<b>26</b>
<b>14</b>	.....	<b>27</b>
<b>15</b>	.....	<b>28</b>
<b>16</b>	.....	<b>29</b>
<b>17</b>	.....	<b>30</b>
<b>18</b>	.....	<b>31</b>
<b>19</b>	.....	<b>32</b>
<b>20</b>	.....	<b>34</b>
20.1	.....	35
20.2	.....	36

	20.3	.....	37
<b>21</b>		.....	<b>38</b>
	21.1	.....	38
	21.2	.....	40
<b>22</b>		.....	<b>42</b>
<b>23</b>		.....	<b>43</b>
	23.1	.....	43
	23.2	.....	44
<b>24</b>		.....	<b>46</b>
<b>25</b>		.....	<b>47</b>
<b>26</b>		.....	<b>49</b>
	26.1	.....	50
	26.2	.....	50
	26.3	.....	50
<b>27</b>	<b>RS232</b>	.....	<b>51</b>
<b>28</b>		.....	<b>57</b>
<b>29</b>		.....	<b>58</b>
<b>30</b>		.....	<b>59</b>
<b>31</b>		.....	<b>60</b>
<b>32</b>		.....	<b>61</b>
<b>33</b>		.....	<b>63</b>

1



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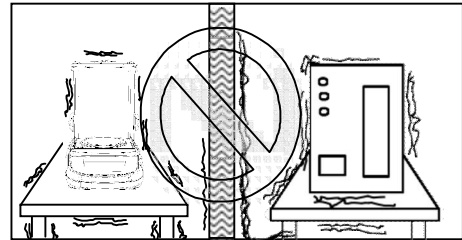
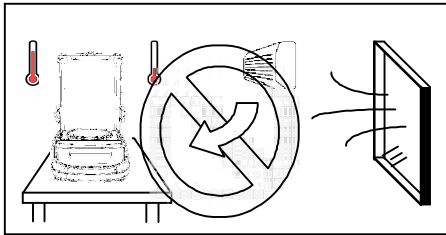


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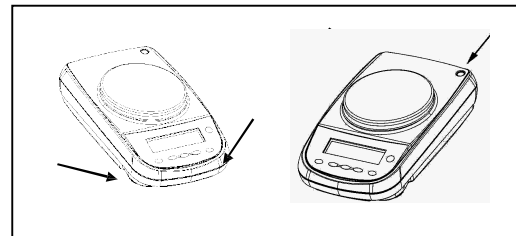
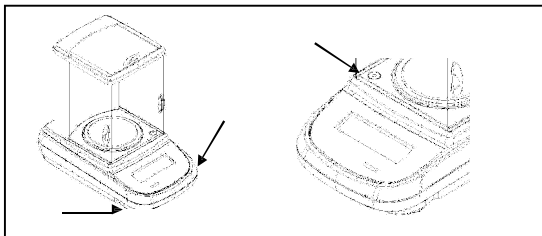
80%



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( . §3).

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( . §5).

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- 0,01 ). 8 (0,1
- 30 (S7).

[ON/OFF]

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## 2

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: +5 °C ÷ +40°C

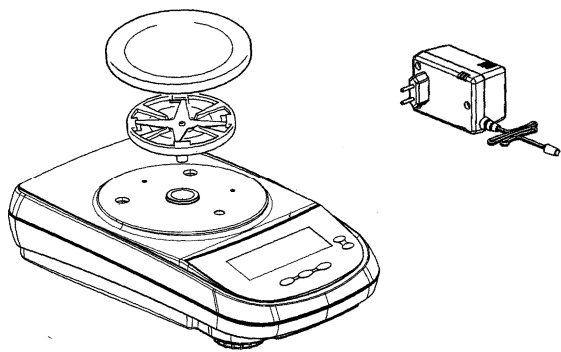
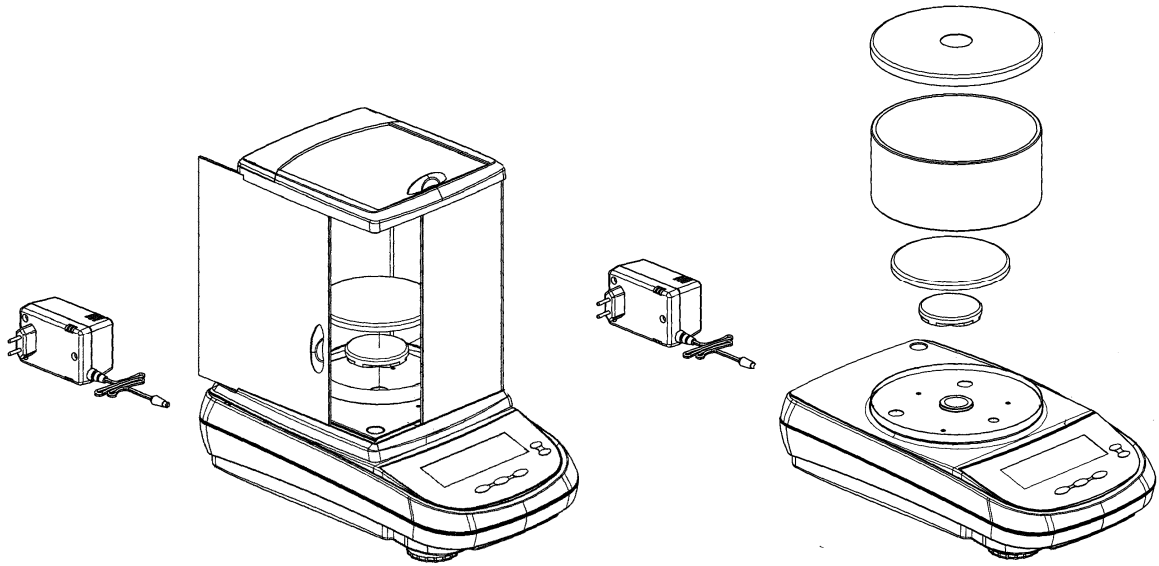
•

80%.

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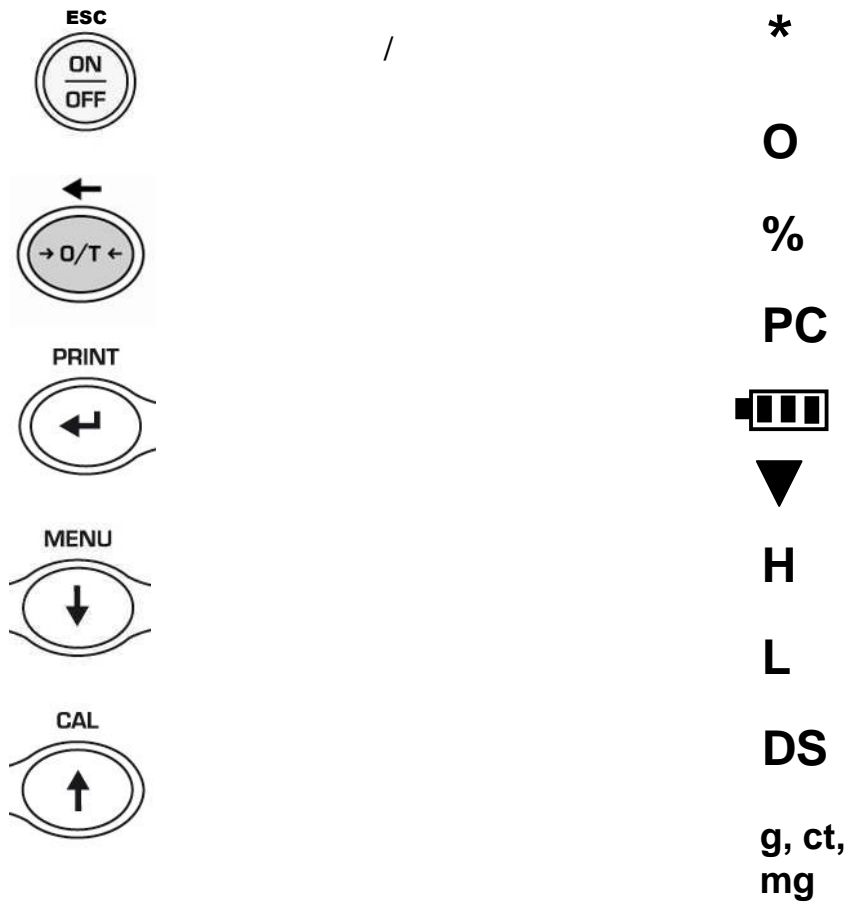
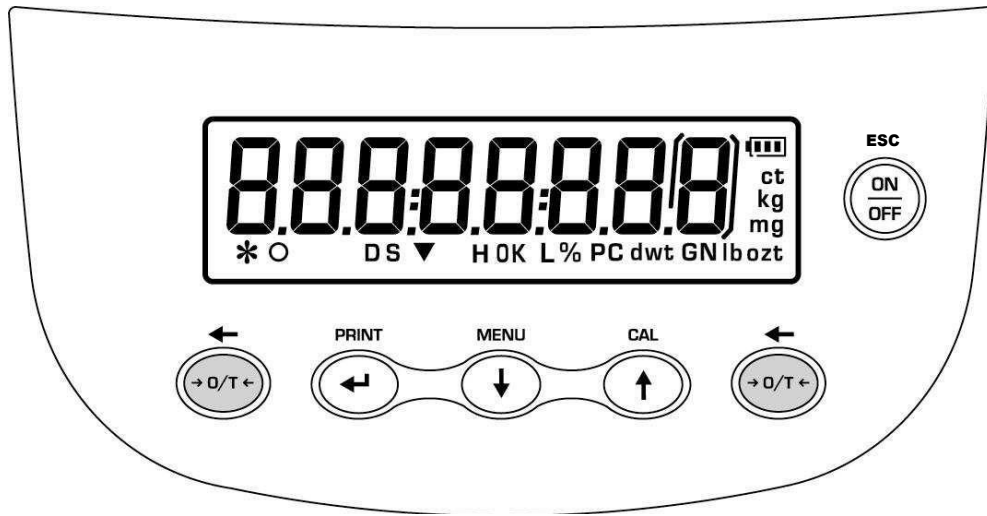
•



:

0,01

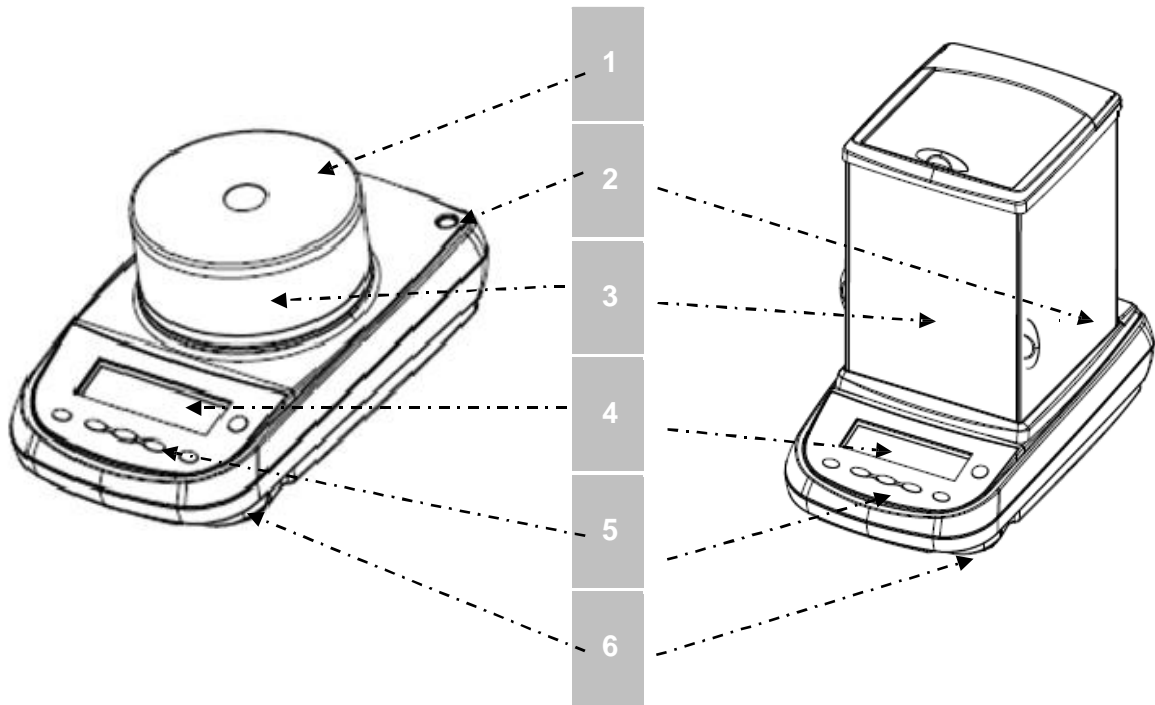






# 5

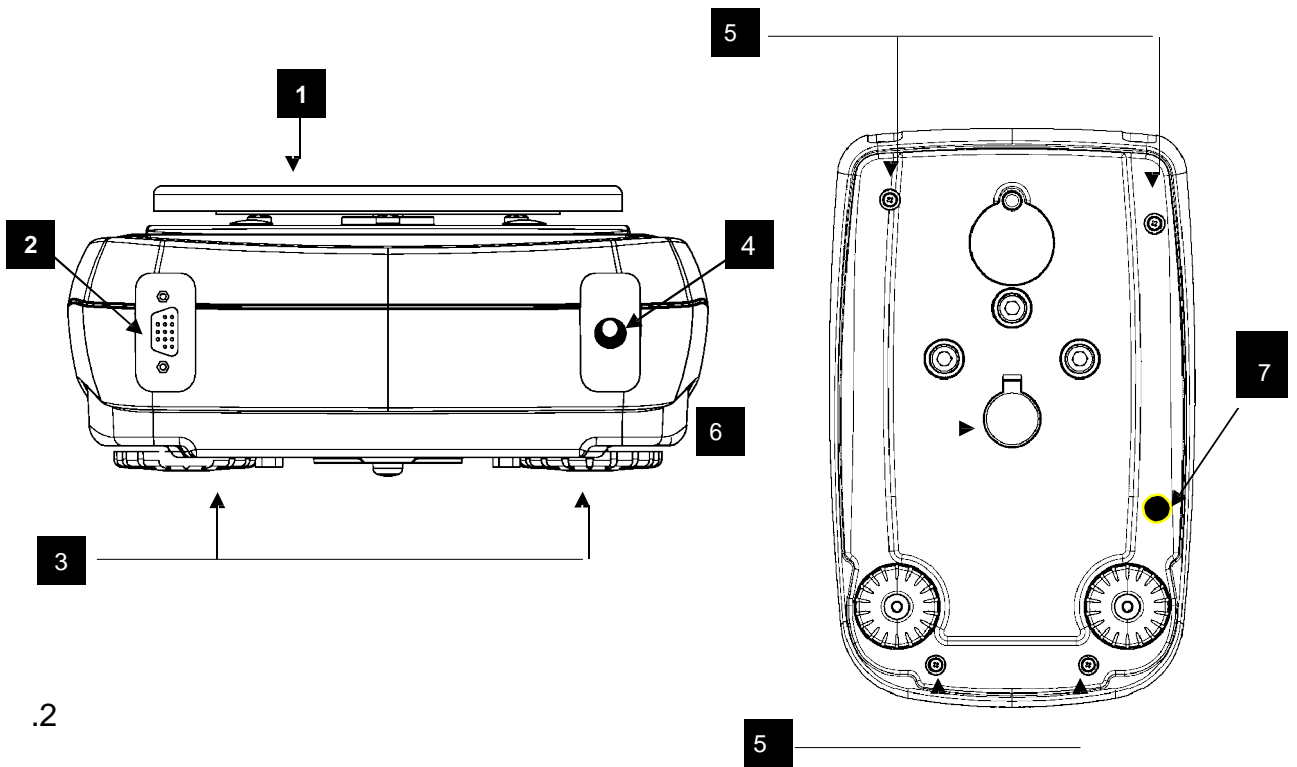
## 5.1



.1

1	
2	
3	
4	
5	
6	

5.2



( .2)	
1	
2	RS232
3	
4	
5	4
6	( d=0.001 d=0.01 ).
7	( _____ Max 4200 _____ ).

6



Í WARM UPÍ,



6.1

• ON/OFF  
• ON/OFF



6.2

« » (\*).



# 7

## 7.1

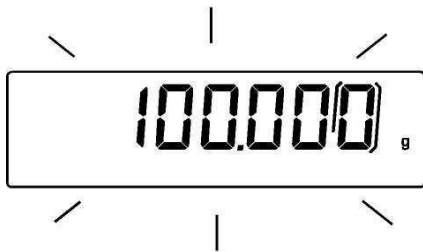


CAL.

1. CAL.

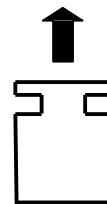


2.

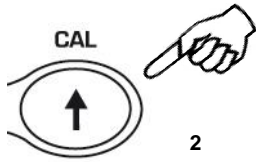


3.

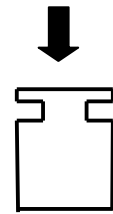
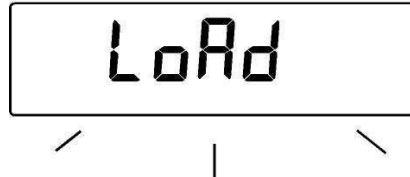
4.



1. CAL,  
"LOAD".



"-CAL-",



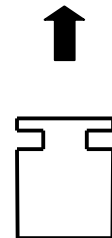
- 2.

300

%LOAD+

200 .,  
100 , 200 ,  
( , 150 . .).

- 3.



## 7.2

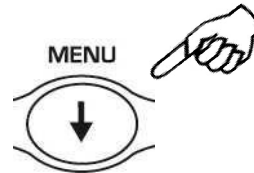
\* ( « » )  
4 :

MENU.  
MENU Í Calibî . %unitS+, PRINT.

1. MENU:

- AUT-CAL:
- I-CAL:
- E-CAL:
- TEC-CAL:

\*



2. %AUT-CALÎ , %CALÎ %E-CALÎ PRINT.  
%TEC-CALÎ PRINT

3. MENU

### 7.2.1 (AUT-CAL)



CAL 25

ON/OFF

5 ;

:

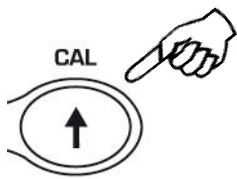
!

CAL

1.

CAL

CAL



2.



CAL bUt

CAL

7.2.2

(I-CAL)

CAL

7.2.3

(E-CAL)

(

§7.1)

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(



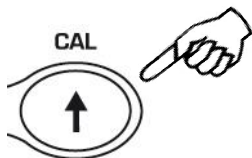
7.2.4

(TEC-CAL)

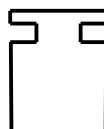
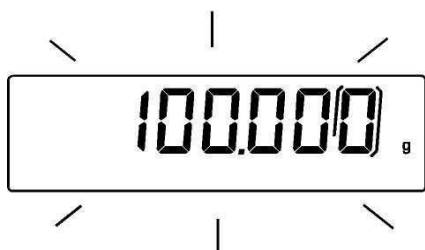
1.

TEC-CAL

CAL.  
Í CALÍ.



2.



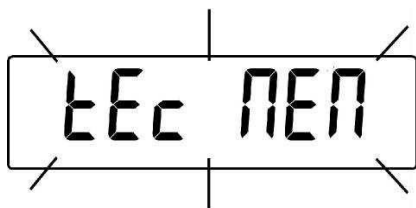
3.

4.

%0.000±

PRINT

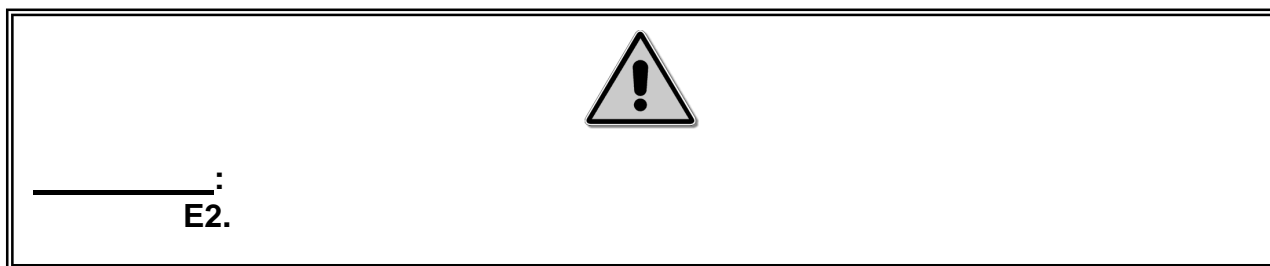
%TEC-MEM±



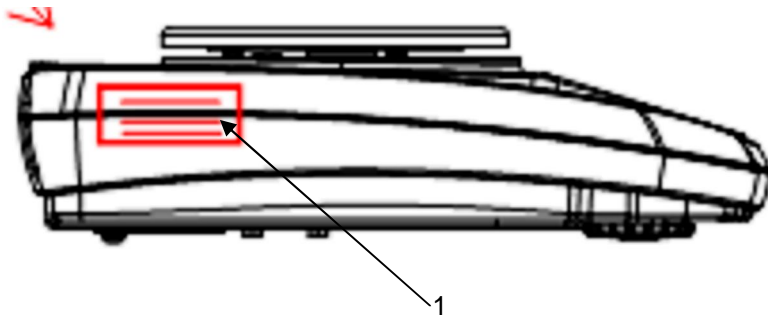
5.

6.

(§7.2)



### 7.3

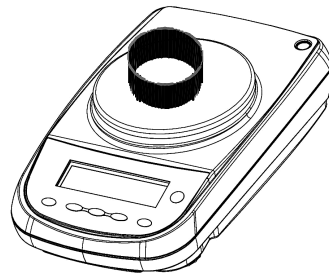
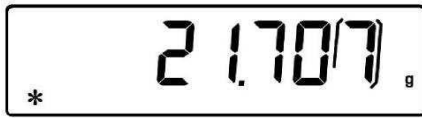


(1 .

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8

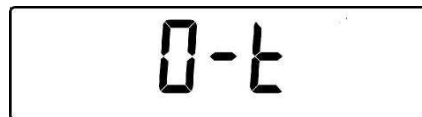
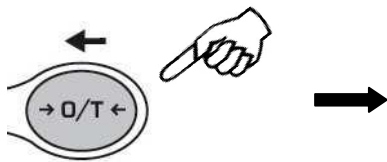
1.



2.

0/T.

%-t±

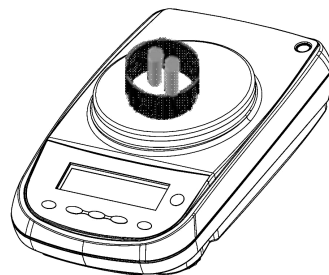


3.

: %0.000±



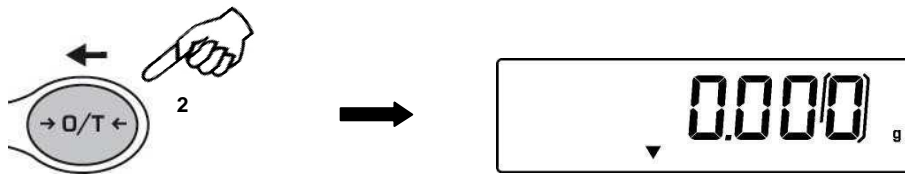
4.



8.1

1. O/T,

2.

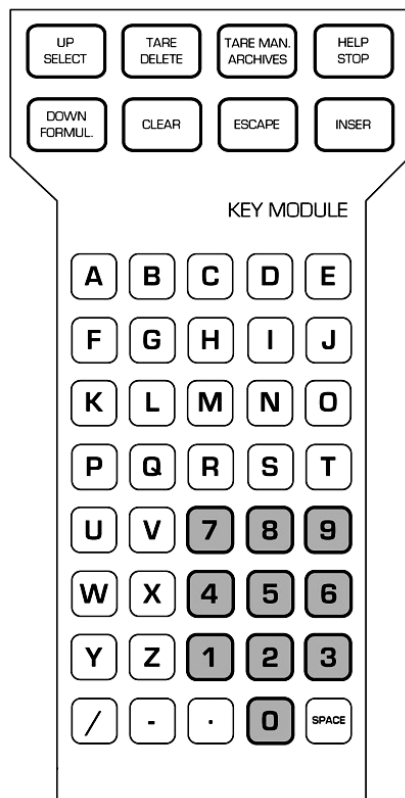


3. CAL MENU.  
O/T.

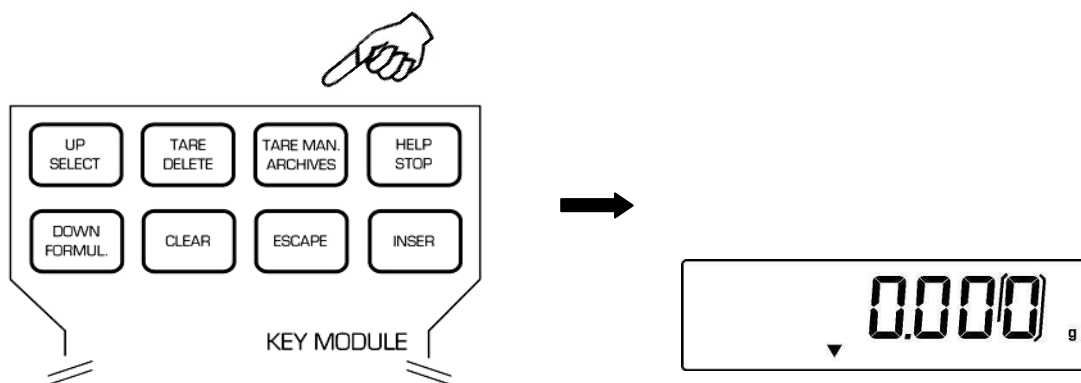


4. PRINT

TARE/DELETE.



1. TARE MAN



2. **CLEAR**

,

.



3. **INSER** confirm.

4. **ESCAPE**

.

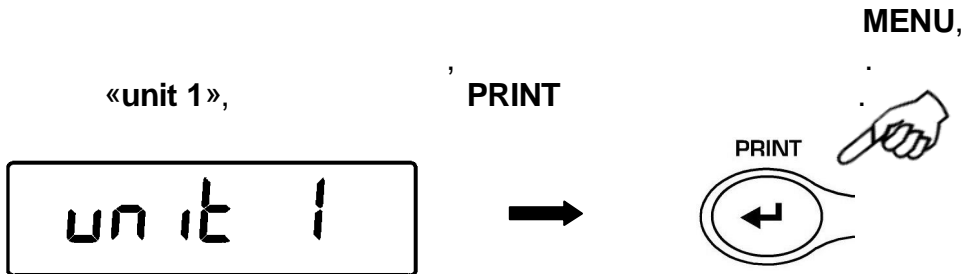
.

9

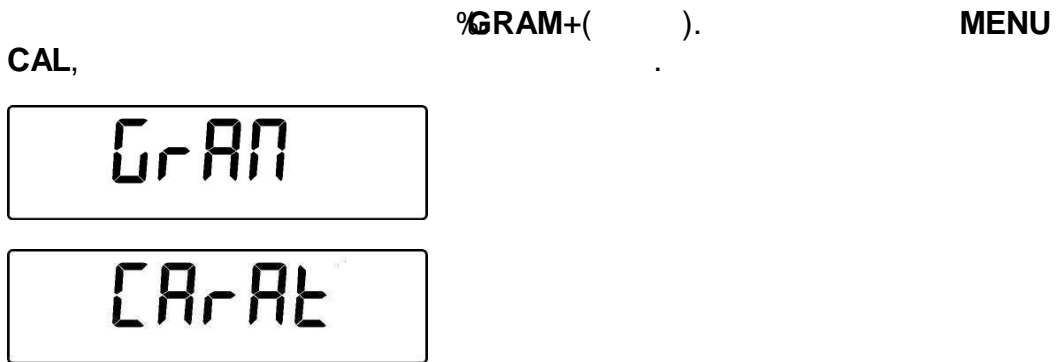
(unit 1)  
unit 1.

(unit 2).

1.



2.



3.

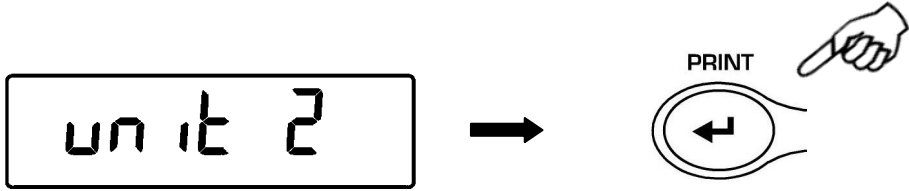
PRINT

		1g =
GRAM		1
MiLLiGr		0.001
CARAT		5
OUNCE	**	0.035273962
POUND	**	0.0022046226
PENN.	**	0.643014931
ONCETR.	**	0.032150747
GRANO	**	15.43235835
Tael HON	( )**	0.02671725
* Tael SGP	( )**	0.02646063
* Tael ROC	( )**	0.02666666
* MOMME	**	0.2667
M 10	x 10**	10
M 100	x 100**	100

\*\*

4. MENU unit1 ( PRINT )

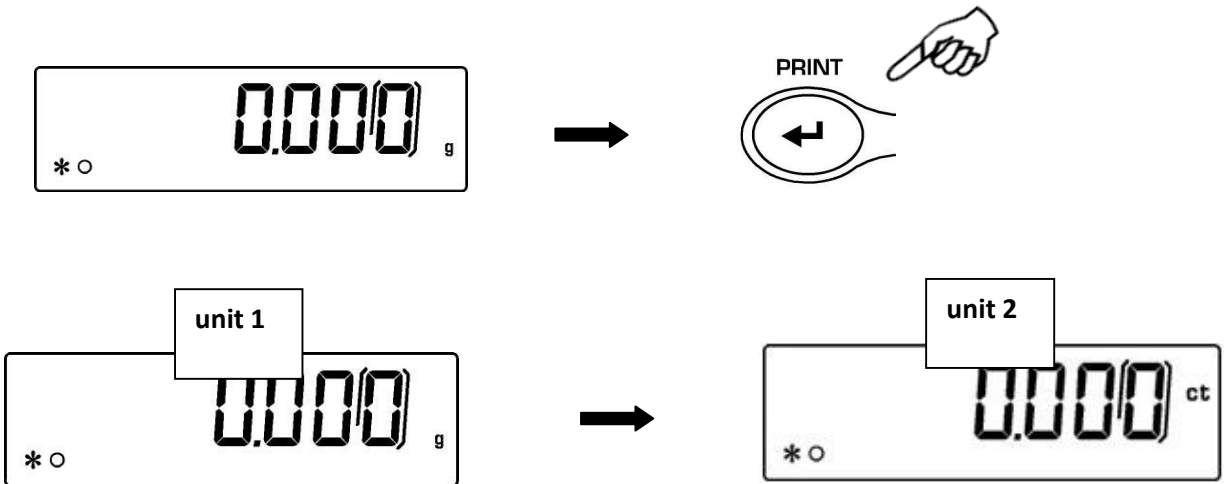
5. "unit 2" , PRINT



6. CAL, «GrAM» ( ). MENU  
MENU, PRINT  
( 3).

7. MENU , ,

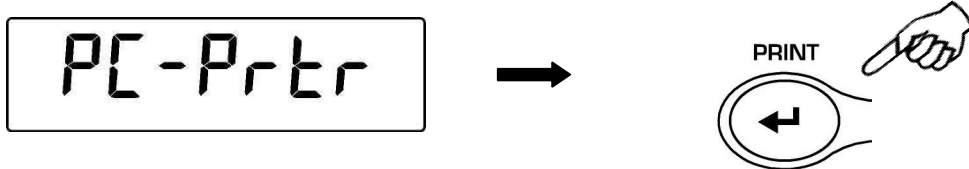
8. PRINT, ,



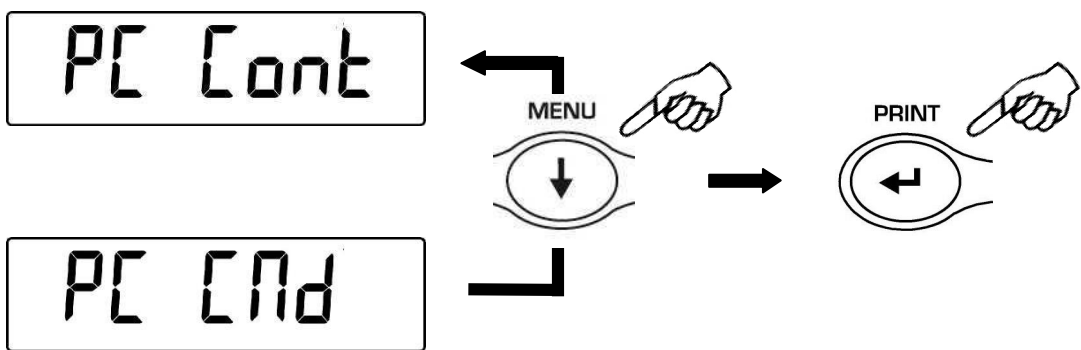


(§25)

1. MENU MENU %unitS+ ,  
 MENU %RC-PRTR+ PRINT.



2. MENU MENU %RC cont+  
 %RC CMD/ PRINT



3. CAL MENU

4. MENU,

- 5.



: (§12)

(§25)

1.

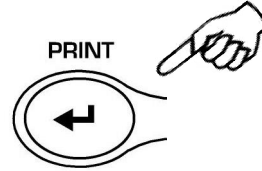
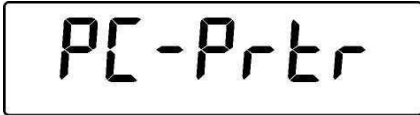
MENU

MENU

PC-PRTR

unitS+

PRINT.



2.

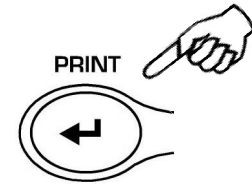
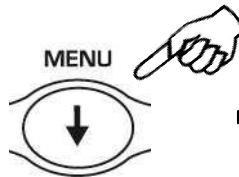
PRINT TLP50

MENU

TLP50

3.

PRINT



4.

CAL

MENU

5.

MENU,

PRINT.

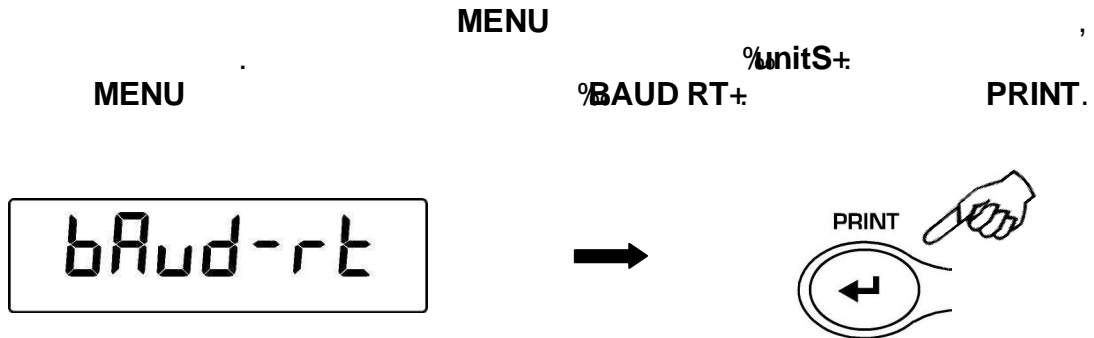


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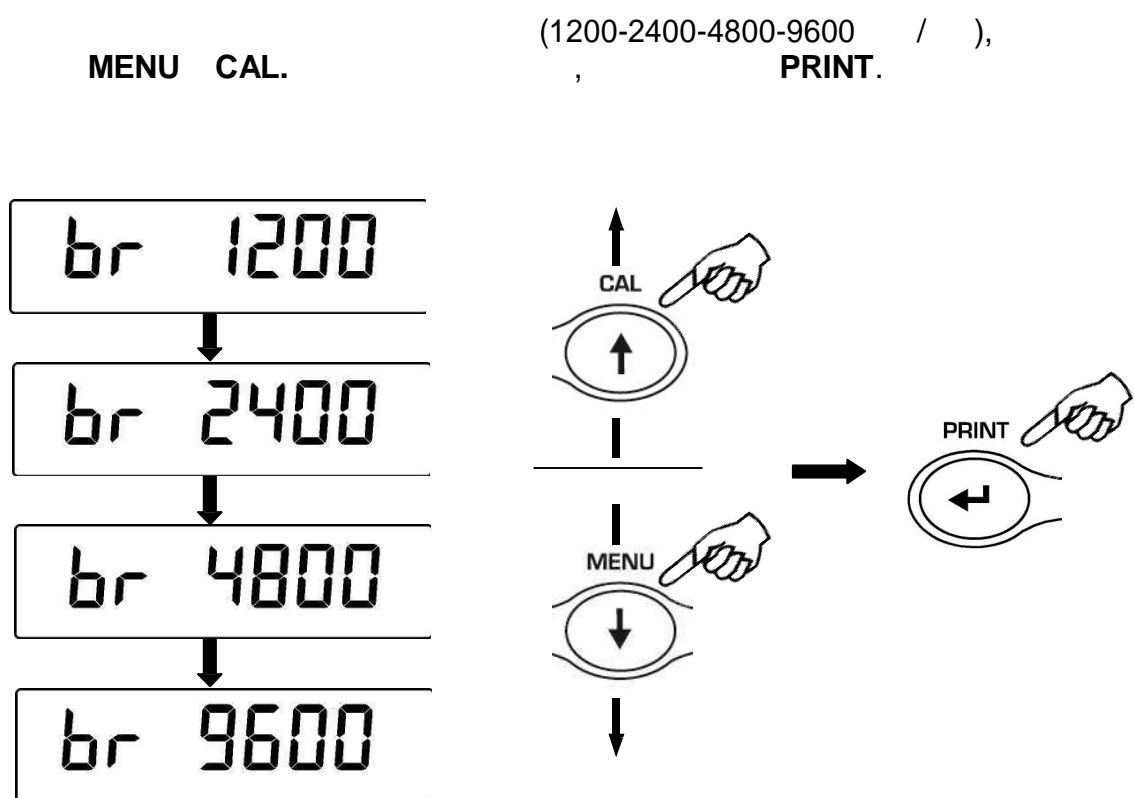
(§12)

12

1.



2.



3.

CAL

MENU

4.

MENU,

5.



- Au0 OFF -
- Au0 1
- Au0 2\*
- Au0 3\*
- Au0 3E\*



\*

1.

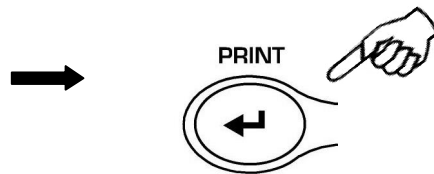
MENU

MENU

%AUTO 0+

%unitS+

PRINT.

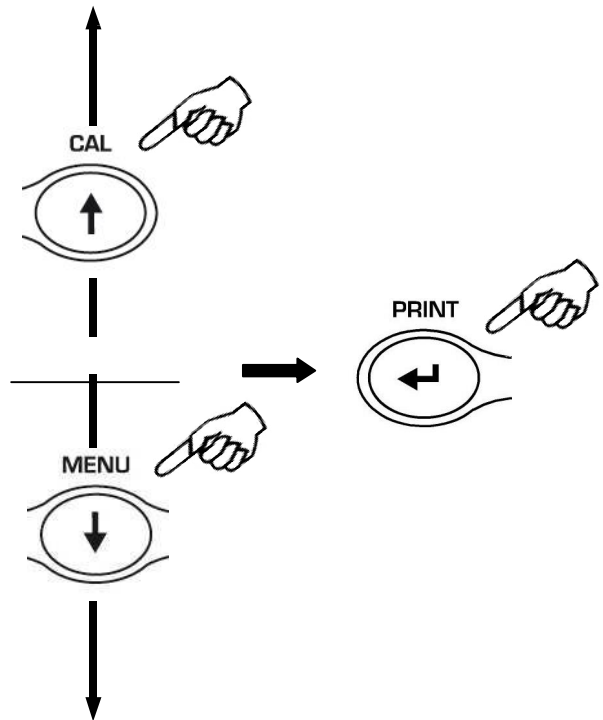
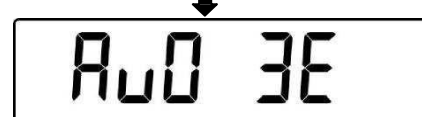
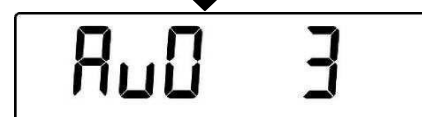
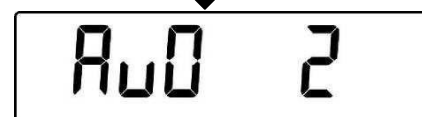
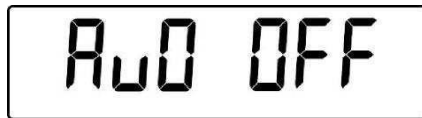


2.

MENU

CAL,

PRINT.



3.

CAL

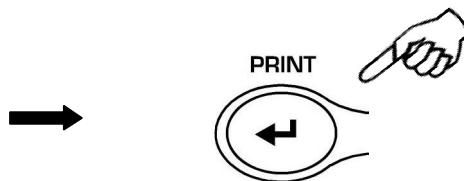
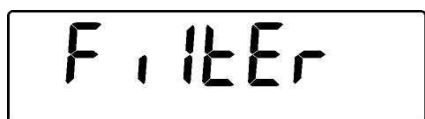
MENU

4.

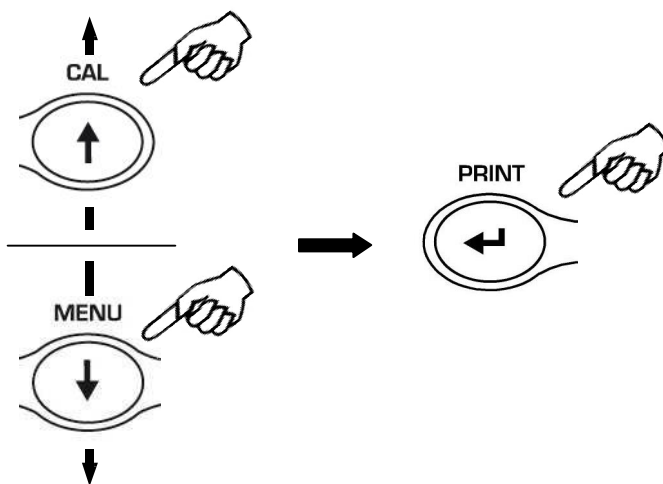
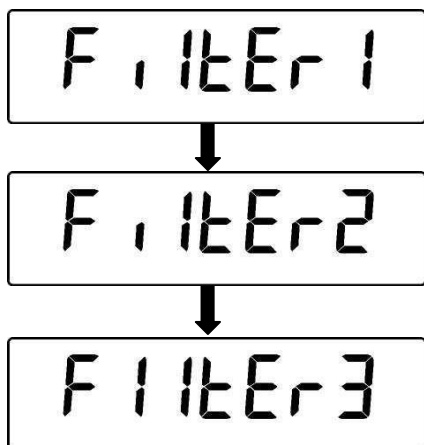
MENU,

FILTER 1:  
 FILTER 2:  
 FILTER 3:

1. MENU MENU %unitS+ %FILTER+ PRINT.



2. MENU CAL, PRINT.



3. CAL MENU

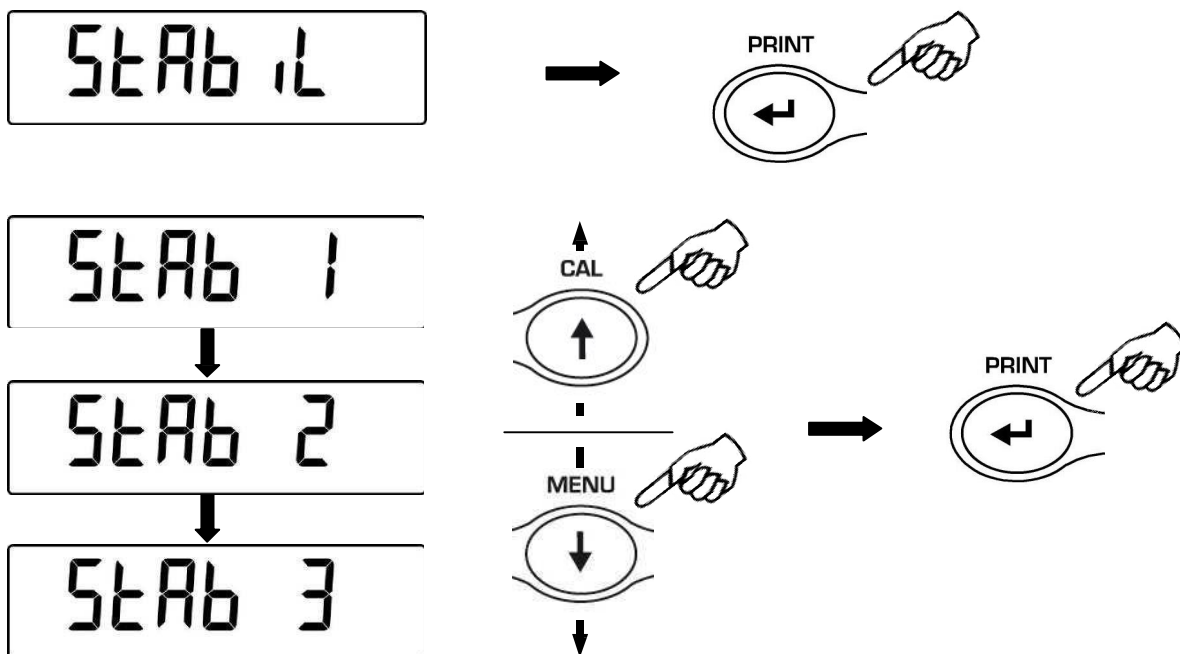
4. MENU,



: FILTER 1

- STAB 1 =
- STAB 2 =
- STAB 3 =

1. MENU MENU %unitS+ PRINT.
2. MENU CAL, PRINT.



3. CAL MENU
4. MENU,



15

1.

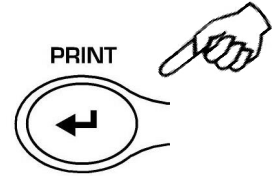
MENU

MENU

Contr +

unitS+

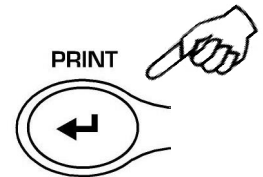
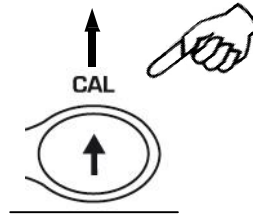
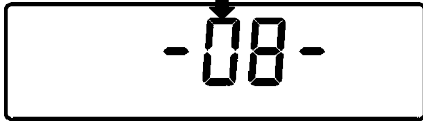
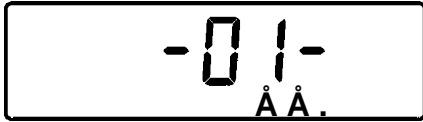
PRINT.



2.

MENU CAL,

PRINT.



3.

CAL

MENU

4.

MENU,

5.



3

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•  
•

1.

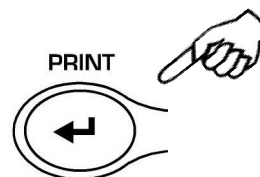
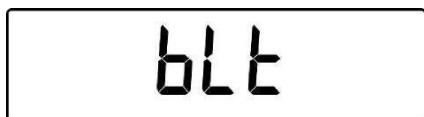
MENU

unitS+

MENU

bLt +,

PRINT.

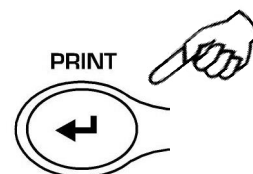
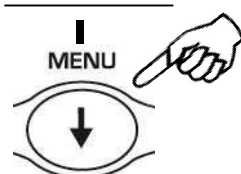
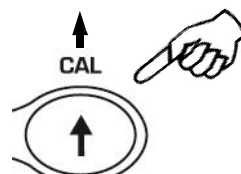


2.

MENU

CAL,

PRINT



3.

CAL

MENU

4.

MENU,

5.





4

- disab =
- 2 Min =
- 5 Min =
- 15 Min =

- 2
- 5
- 15

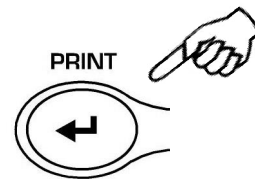
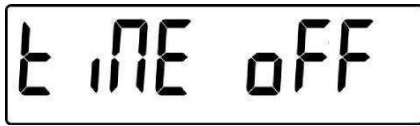
1.

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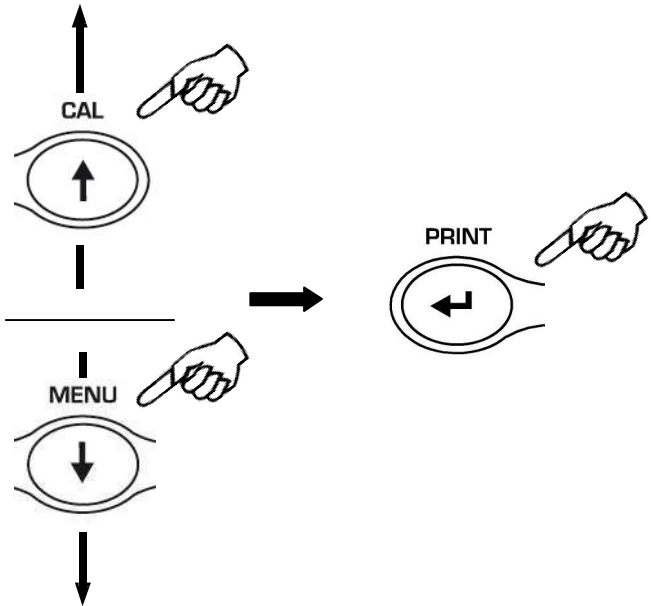
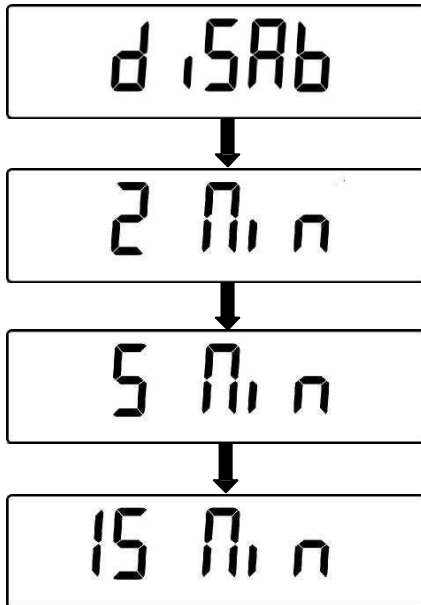
PRINT.



2.

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PRINT.



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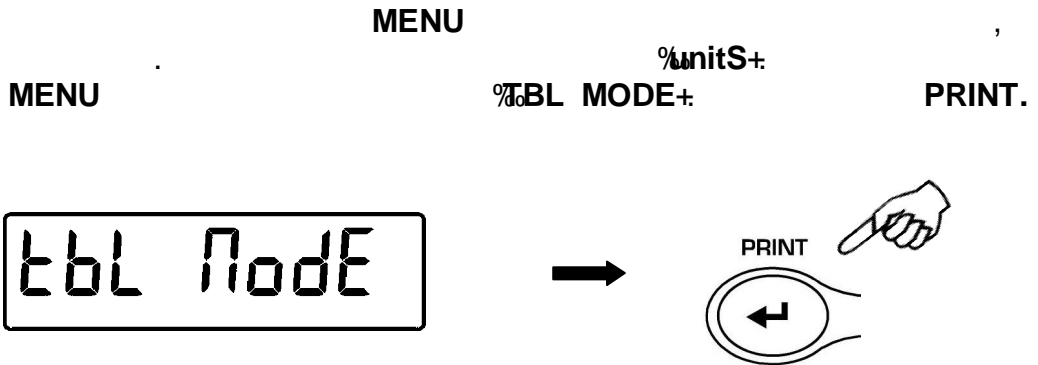
4.

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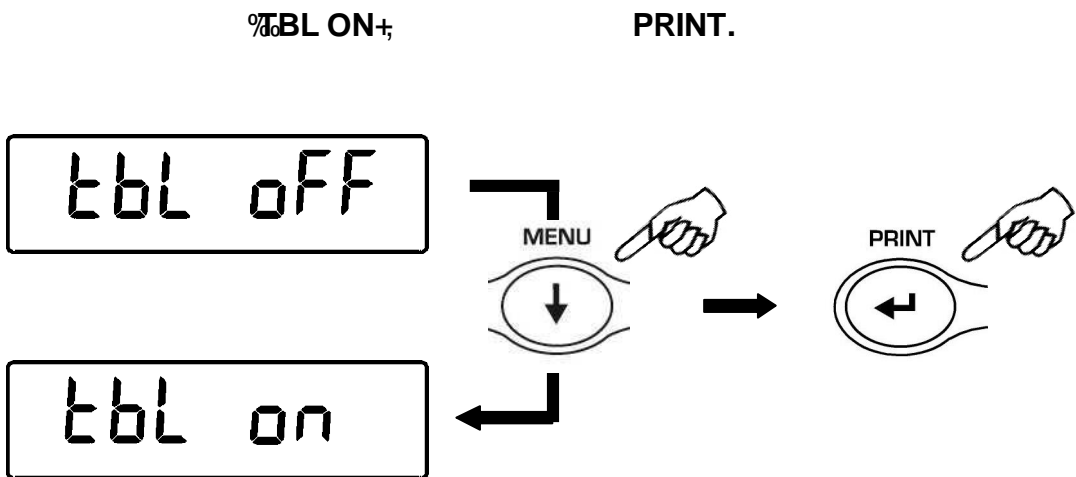
5.



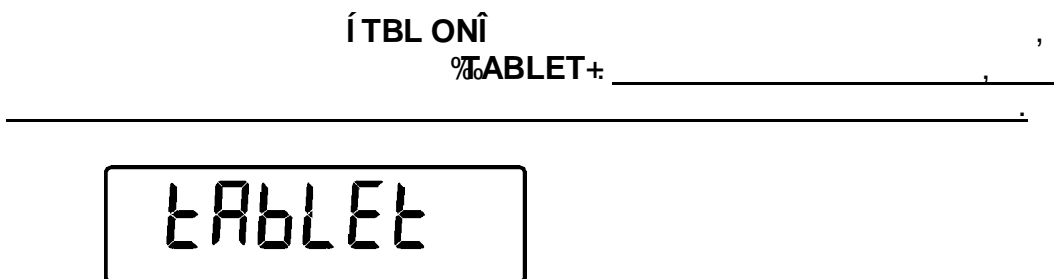
1.



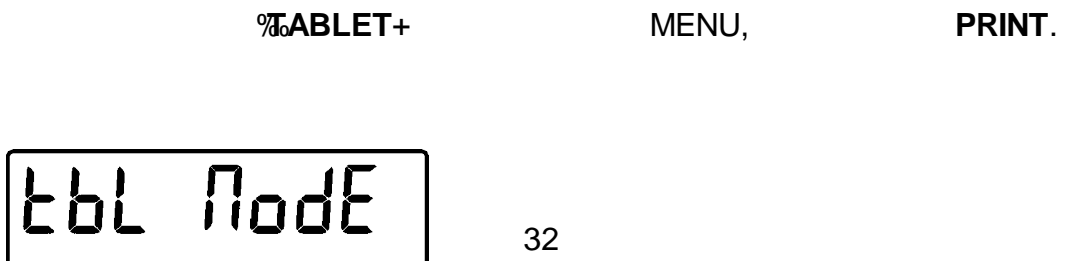
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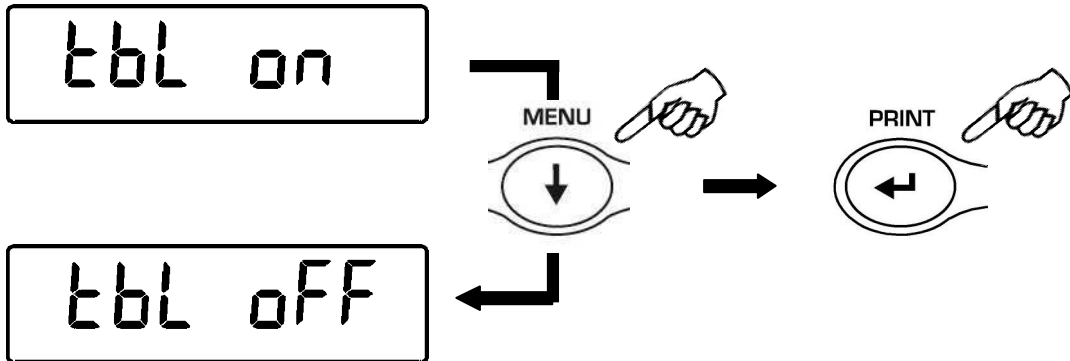
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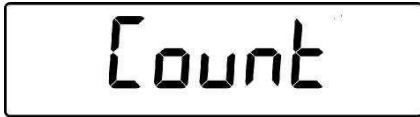


6.

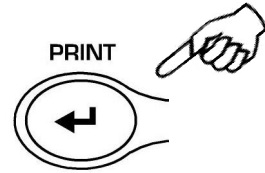
PRINT

20

1. MENU  
PRINT



Í Count Í,



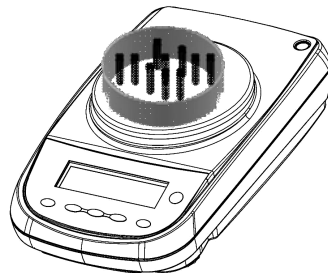
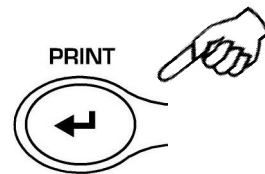
2. MENU

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PRINT.



PRINT



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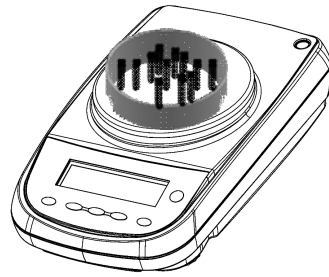


Í AddÍ.

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Í Add SMPÍ .

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3.

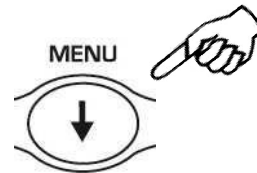
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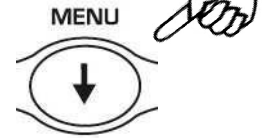
MENU.

20.2

1.

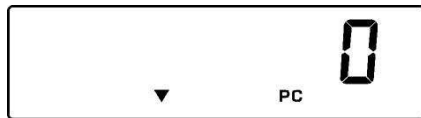
PRINT. MENU MANUAL,

í Countî, MENU.



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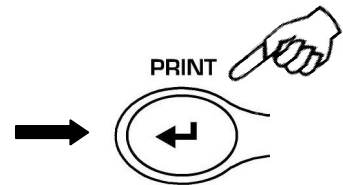
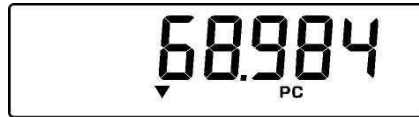
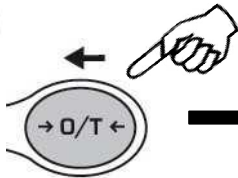
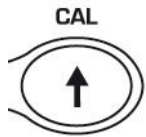
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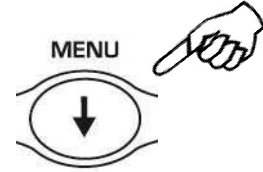
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### 20.3

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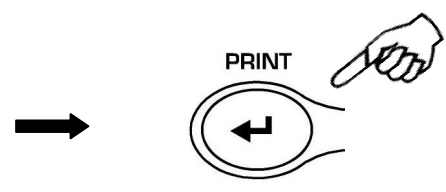
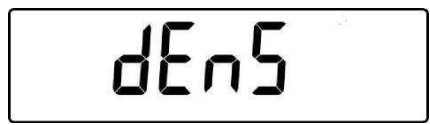
255

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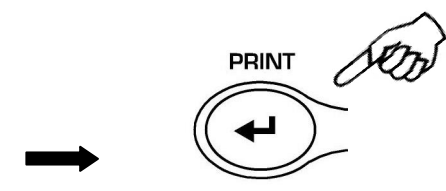
( ).

21.1

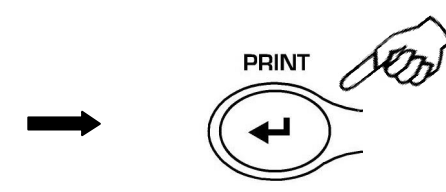
1. Í dEnSî, PRINT MENU



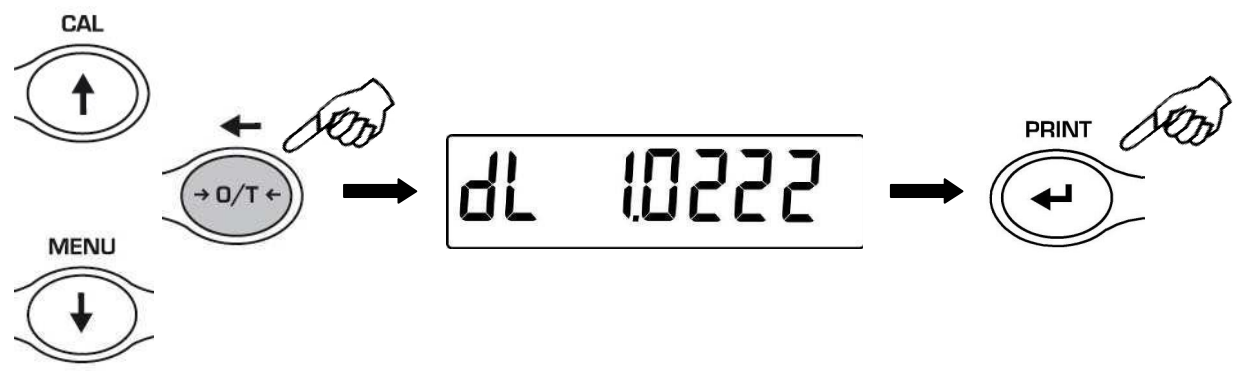
2. Í d SoLidî, PRINT. MENU,



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4. CAL MENU. O/T, O/T





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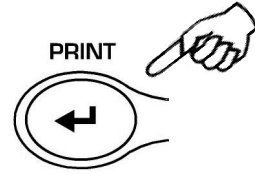
( ).

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PRINT.

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WEI AIR

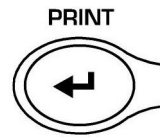
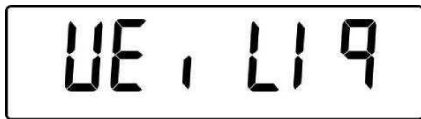
9.

WEI LIq.

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PRINT.

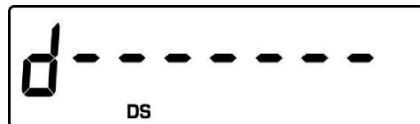
WEI LIq



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11.

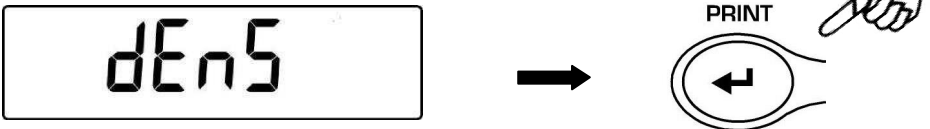


12.

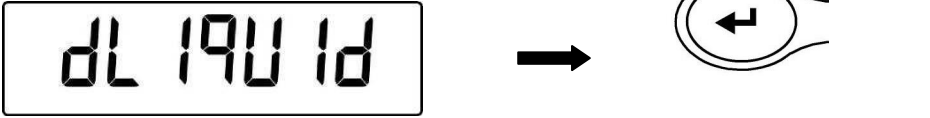
MENU ON/OFF

21.2

1. Í dEnSÍ, PRINT MENU




2. MENU, PRINT. Í d LiquidÍ,



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4. CAL MENU. O/T, O/T



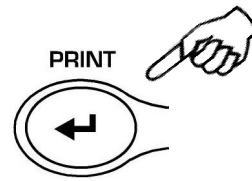
5. ( ).

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WEI AIR

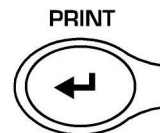
9.

PRINT.

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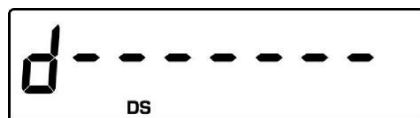
WEI LIq



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11.

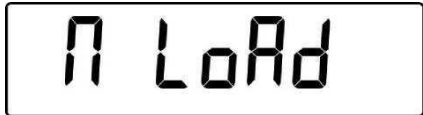


12.

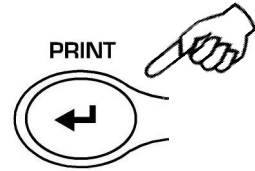
MENU ON/OFF

M LOAD

- 1. Í M Loadí , M LOAD



MENU  
PRINT



- 2.

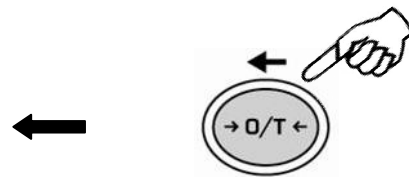


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- 4. TARE



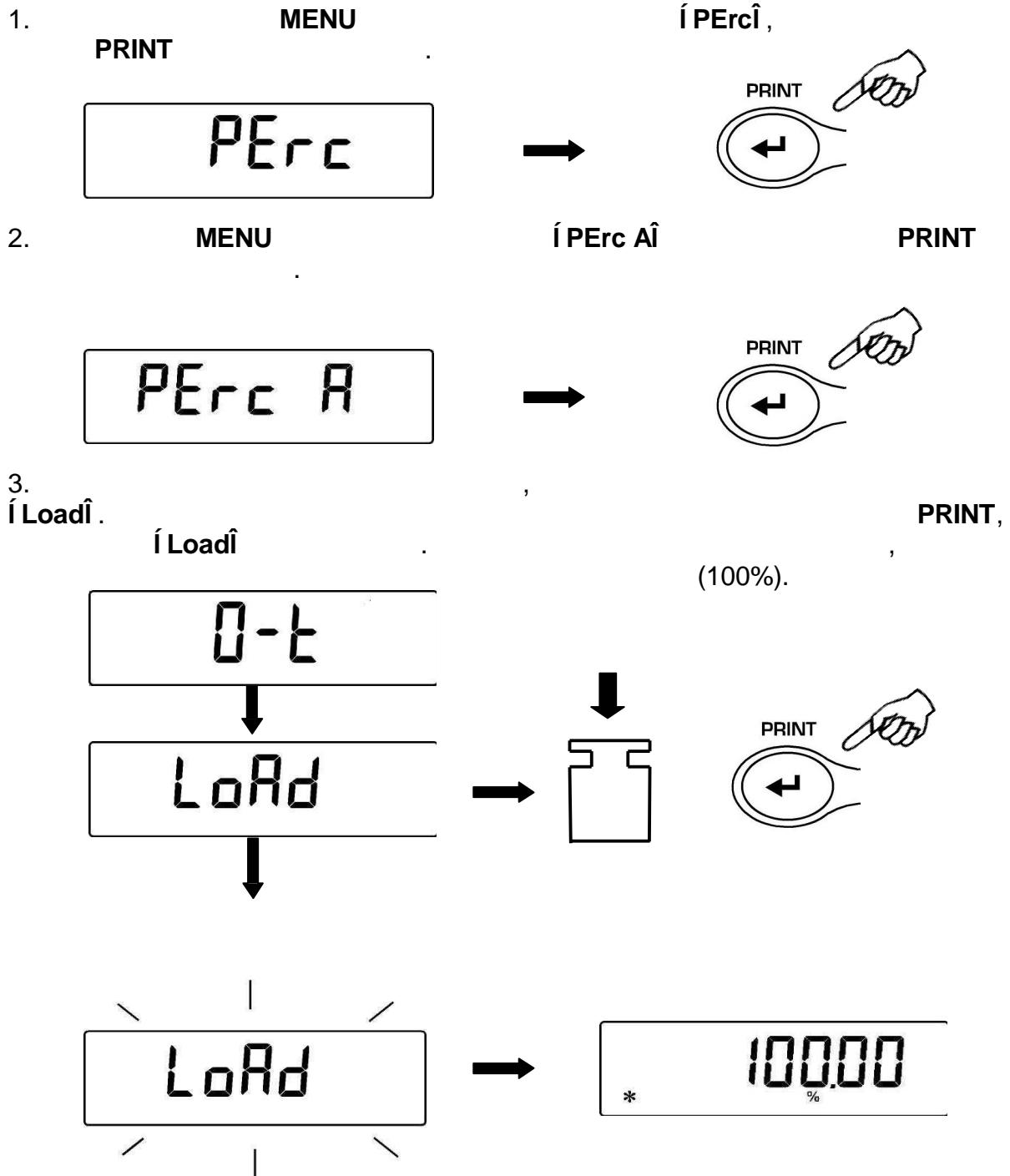
- 5. M LOAD

- 6. ON/OFF

M LOAD.

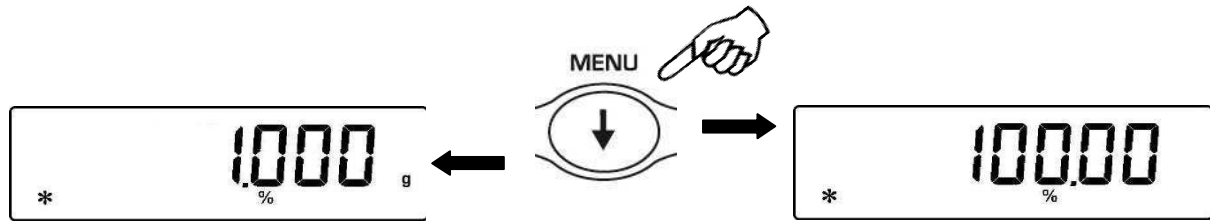
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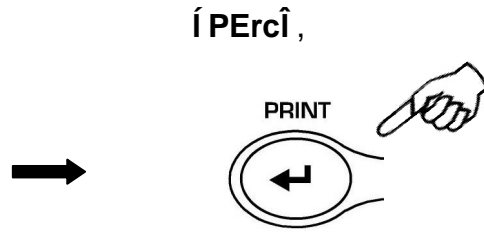


6. ON/OFF

ERROR 07.

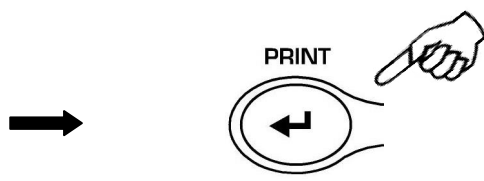
### 23.2

1. PRINT MENU



2. MENU

Í PErc MÎ PRINT



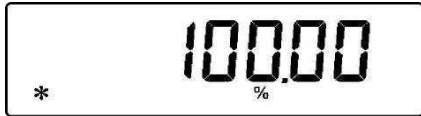
3.

O/T. CAL MENU. O/T,



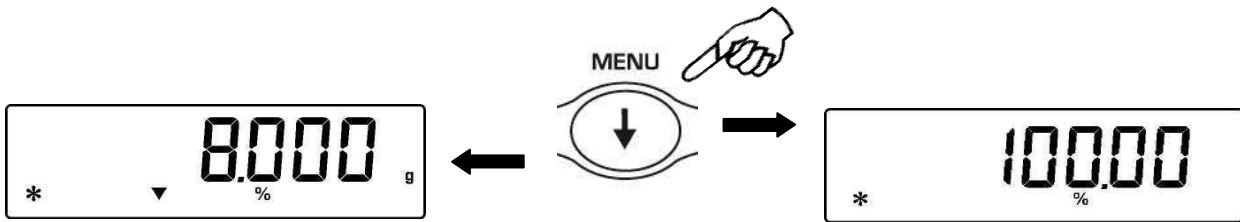
4. PRINT

5.



6. MENU

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7. ON/OFF

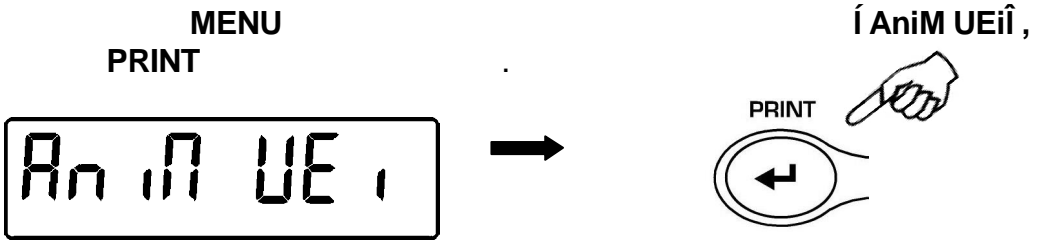
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ERROR 07.

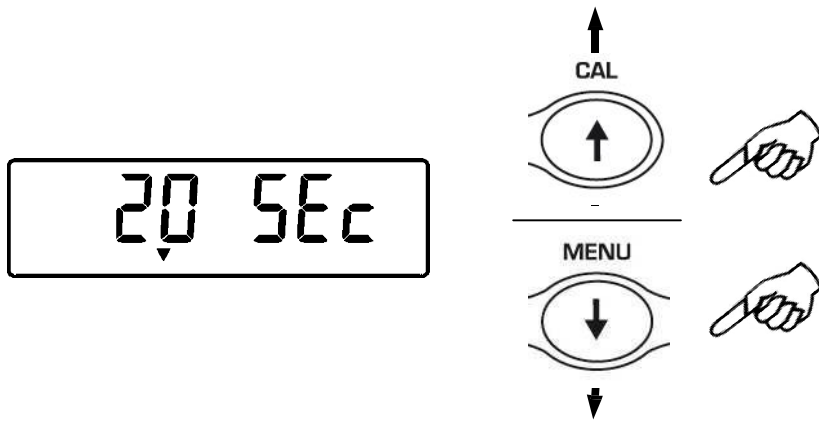
1. MENU  
PRINT

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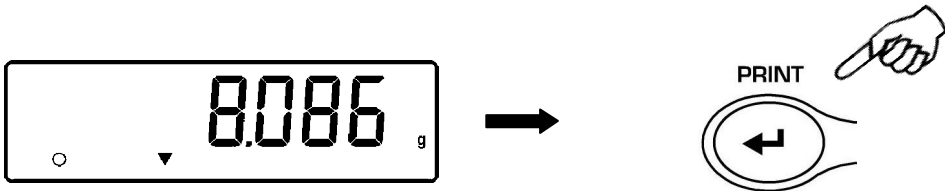


2. 5 90 ,  
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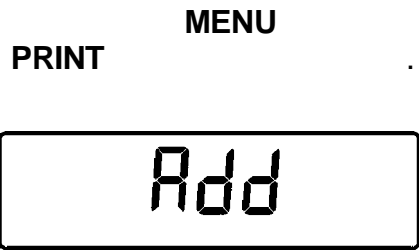
4.  
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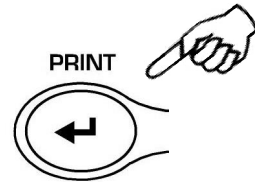
6. ON/OFF



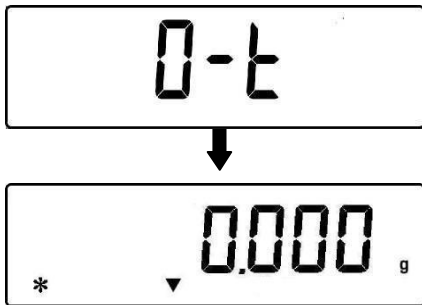
1.



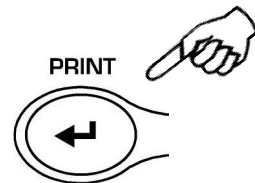
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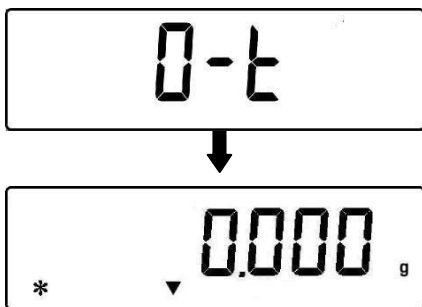
3.



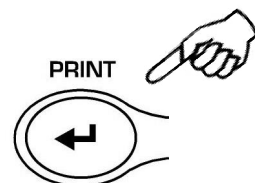
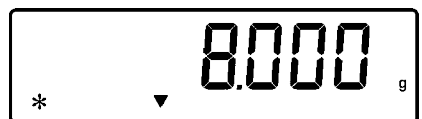
4.

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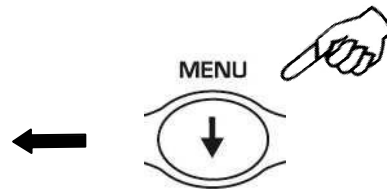
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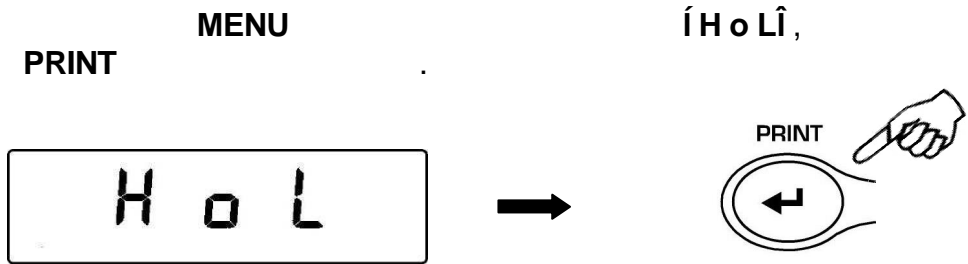
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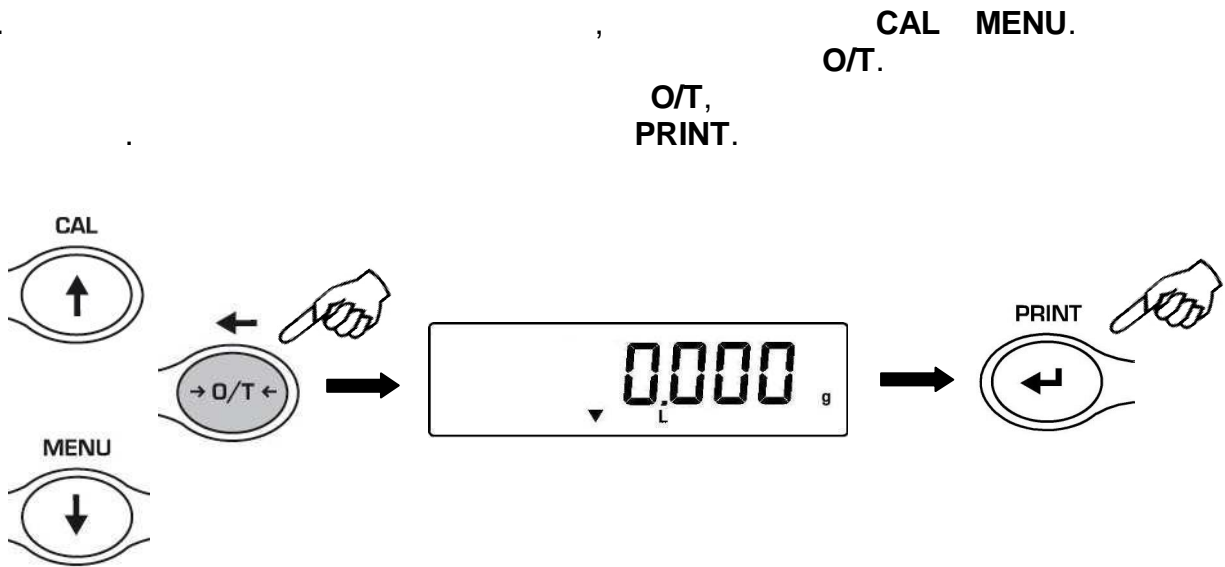
9.

ON/OFF

1.

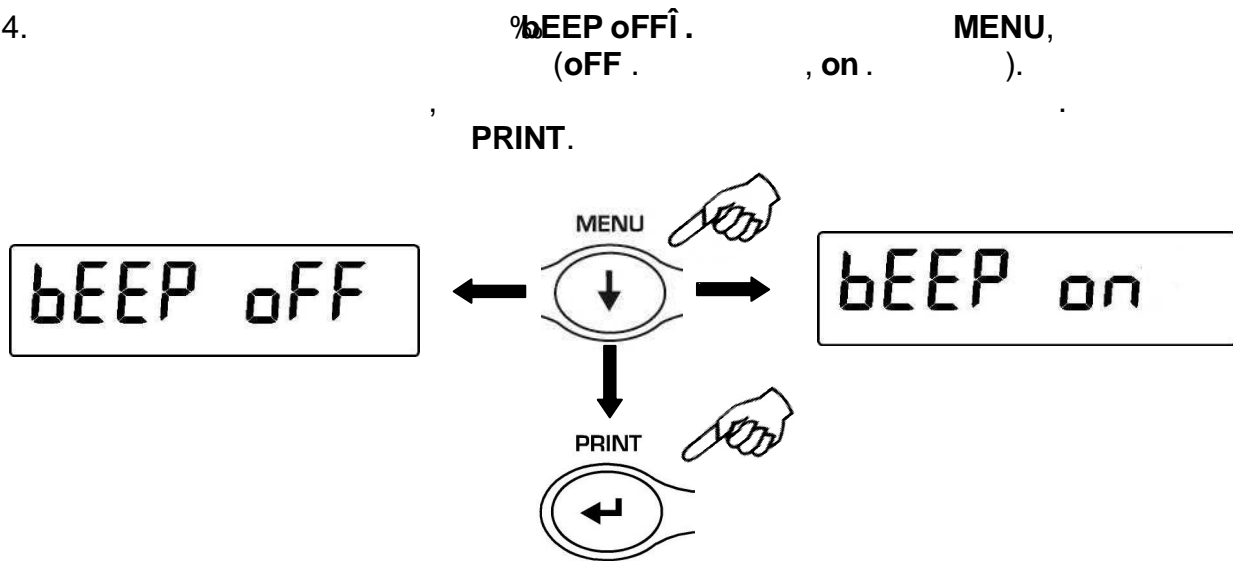


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RS232C,

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Í PC CMdî

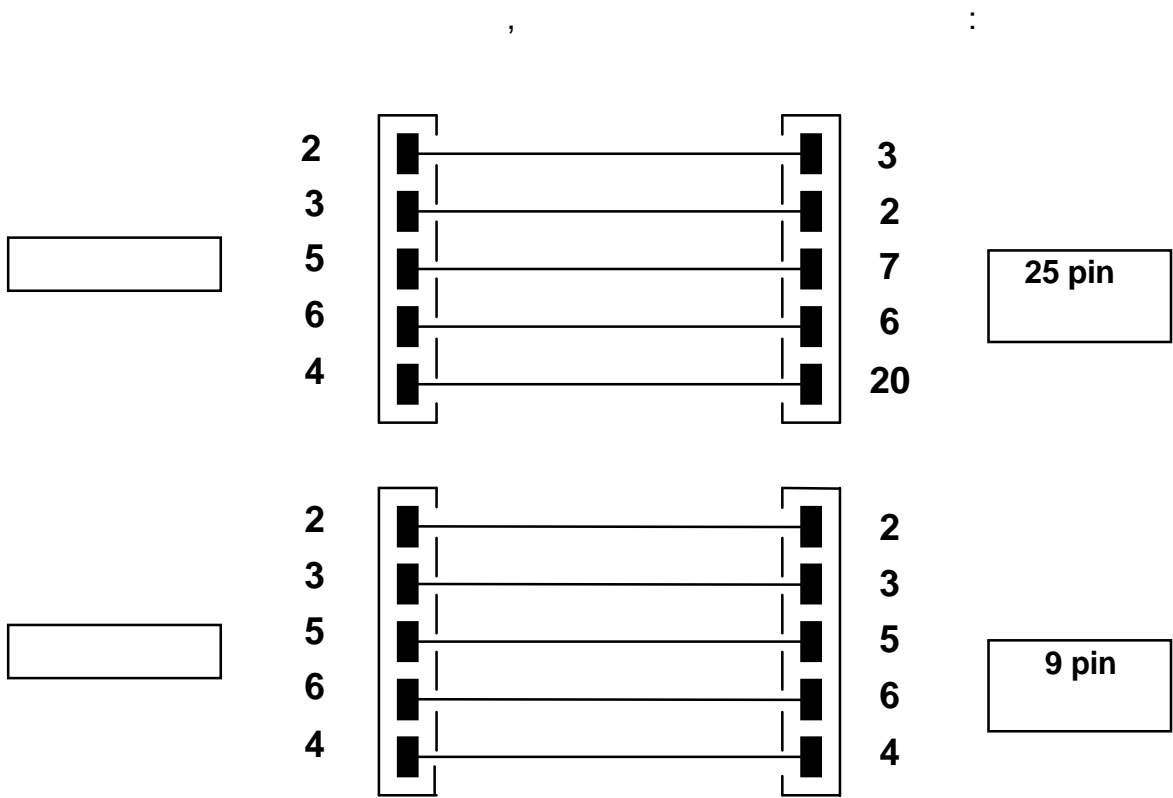
PRINT.

ASCII,

	1 ( )
%t+ = H54	
%c+ = H43	
%e+ = H45	
%M+ = H4D	
%D+ = H4F	/

	2 ( )
%t+ = H74	
%c+ = H63	
%e+ = H65	
%M+ = H6D	
%D+ = H6F	/

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- 1 : ( 14 )
- 2~9 :
- 10~12 :
- 13 :
- 14 :
- 15 :

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Time		=			Sec	
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1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°
S		=											g				

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1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°
Weight						:	.									g			

Ok

1°	2°	3°	4°	5°
- Low -				

1°	2°	3°	4°	5°
- High -				

1°	2°	3°	4°	5°
- Ok -				



5.

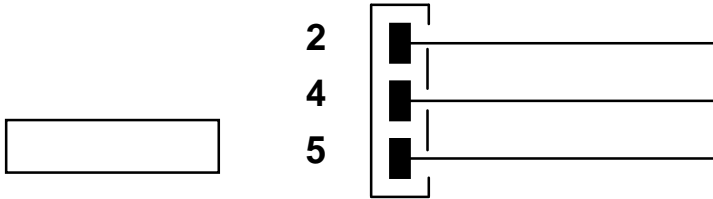
Í Printí

PRINT

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ERR05

6.



TLP50,

12-02-2008	12:00
Weight:	22.000 g

12-02-2008	12:00
Pcs	100
Weight:	300.000 g
PMU:	3.000 g

12-02-2008	12:00
d=	2.80066 g/cm <sup>3</sup> d

12-02-2009	12:00
Perc.	100.0%
Weight:	300.000 g

12-02-2009	12:00
Time =	6 Sec
Ave. =	59.446 g

12-02-2010	12:00
1.	16.589 g
2.	17.226 g
ō	
99.	
-----	
S=	33.815 g

12-02-2013 12:00  
Weight: 0.00g  
-LOW-

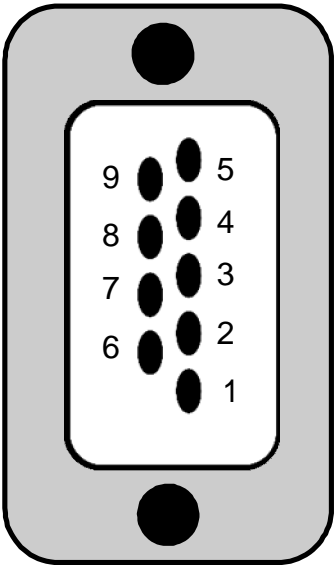
12-02-2012 12:00  
Weight: 49.20g  
- OK -

12-02-2011 12:00  
Weight : 249.42g  
-HIGH-

7.



8.

**RS232**



1:

- pin 1 = +5V
- pin 2 =
- pin 3 =
- pin 4 =
- pin 5 =
- pin 4-6 =

ERR01		
ERR02	-	
ERR03		.
ERR04		.
ERR05		
ERR06		
ERR07		
ERR08		
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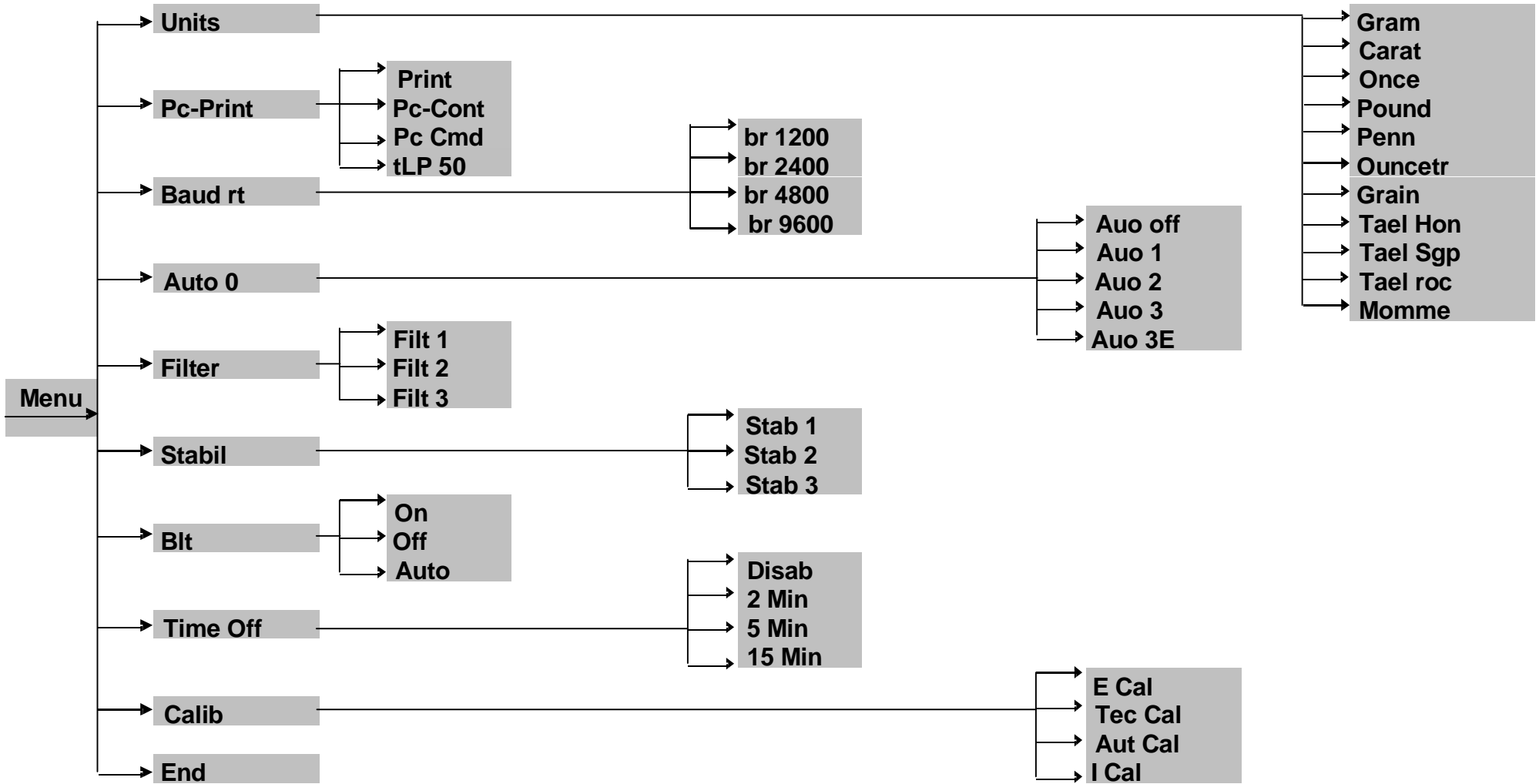
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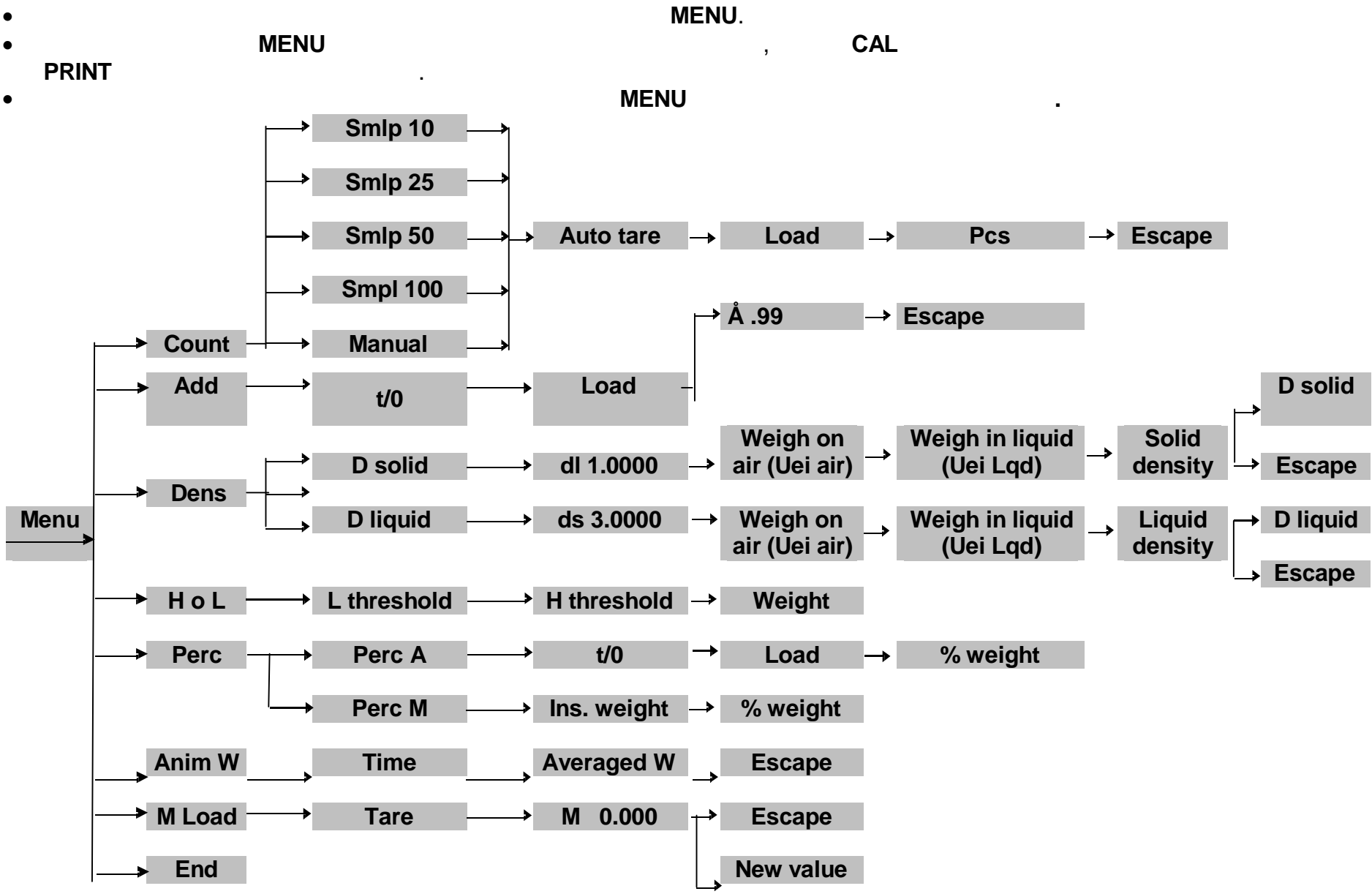
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MENU



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	DA-65C	DA-125DC	DA-124[C]	DA-225DC	DA-224[C]
OIML R 76-1. 2011	I				
( ),	62	120	120	220	220
( ),	0,001	0,001	0,001	0,001	0,001
(d),	0,00001	42 ∴ 0,00001; .42 ∴ 0,0001	0,0001	82 ∴ 0,00001; .82 ∴ 0,0001	0,0001
(n)	62000	120000	120000	220000	220000
	100 %				

	DA-314C	DA-514C	DA-1003C	DA-1203C	DA-2103C
OIML R 76-1. 2011	I				
( ),	310	510	1000	1200	2100
( ),	0,001	0,001	0,01	0,01	0,01
(d),	0,0001	0,0001	0,001	0,001	0,001
(n)	310000	510000	100000	120000	210000
	100 %				

	DA-8202	DA-223C	DA-333C	DA-523C	DA-723C
OIML R 76-1. 2011	I	II			
( ),	8200	220	330	520	720
( ),	0,1	0,01	0,01	0,01	0,01
(d),	0,01	0,001	0,001	0,001	0,001
(n)	82000	22000	33000	52000	72000
	100 %				

	DA-2202C	DA-3102C	DA-4202C	DA-5202C	DA-6202C
OIML R 76-1. 2011	II				
( ),	2200	3100	4200	5200	6200
( ),	0,1	0,1	0,1	0,1	0,1
(d),	0,01	0,01	0,01	0,01	0,01
(n)	22000	31000	42000	52000	62000
	100 %				

100% Max

:

24

:

220<sup>+10%</sup> ;  
-15%

50±1.



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36

48

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