



CE

FX-TA Flow Transmitter Operation Manual

202012.V01

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1. General :

1.1 Safety Information :

- Installation or maintenance of FX-TA should be carried out according to the contents of this operation manual.
- Improper connection between FX-TA and other instruments will cause danger, please read this operation manual carefully before use.
- Do not modify the structure of this product arbitrarily, or operate beyond its specification limit, to avoid danger.
- Installation and power distribution must be performed by qualified electrician technicians.
- When assembling the power supply of this instrument, the power supply should be cut off first.
- Do not use any cleaning agents to wipe the meter.

1.2 Packing :

- Before unpacking, please confirm whether the package is complete.
- The content of the product package should include
 - FX-TA** flow transmitter x 1
 - According to the options, analog output module x 1 (optional), digital output module x 1 (optional), RS485 communication output module x 1 (optional)
 - Operation manual x 1

2. Description :

2.1 Specification :

- Display : 3.7" LCD screen, Large fonts are easy to distinguish .
 - Line 1 : Operation status indicator, flow signal, analog output pulse, switch action, RS485 communication, etc.
 - Line 2 : 6-digit instantaneous flow value, setting steps and parameters.
 - Line 3 : 10-digit totalizer(Resettable & Un-resettable)
 - Line 4 : Units.
 - : The vertical column on the right is 100% analog output and light bar .
- Power supply : 85 ~ 265 VAC/DC, 45 ~ 65 Hz.
- Power consumption : 5 – 20W (Depends on the matching flow sensor).
- Output : 4-20mA current output , Max.500Ω load. Accuracy $\pm 0.5\%$ o.R
- Sensor power offer : 5V / 12V / 24VDC, 30mA. Select by jumper.
- Datalogger : Stored in EEPROM, can be stored for more than 10 years .
- Self-diagnosis : Do self-diagnosis at startup .
- Analog output module : Isolated 4-20mA current output , Max.500Ω load. Accuracy $\pm 0.5\%$ o.R
- Digital output module : One set OPT switch, corresponding to the cumulative value to define pulse output, set value 0.0001-999999.
 - : One set Reed switch, Hi / Lo flow alarm, 240VAC or 24VDC, Max.5A .
- Communication output : Isolated RS485 module (Modbus , RTU)

module

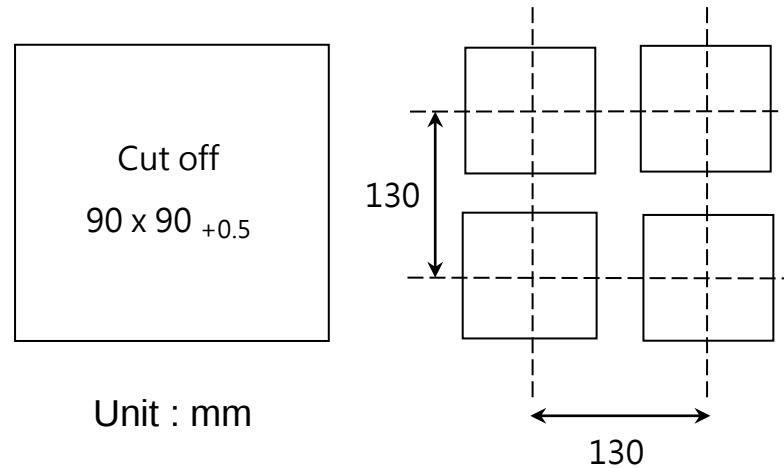
- Keypad : 5 keys for program parameter setting and display selection .
- Material : Body – PC, Rear cover – ABS, Module shell – ABS.
- Protection layer : Front - IP54, Cover - IP20.
- Wiring : Plug-in terminals.
: Output module – Flip the cover, then insert and fixed. Plug-in terminals .
- Panel mounted : Diagonal slide rail push type fixing clip .
- Dimension : 95L x 95W x 100D mm. (Incl. Output module)
: 90L x 90W mm. (Panel Cut-off)
- Ambient temperature : Operating temperature -10 ~ 65°C.
- Certification : CE approval, IEC61000.

2.2 Ordering Information :

Layer selection Ex. : FX-TA-2-2-(A+B+D)-PL					
FX- TA -	X-	X-	X-	-XX	Description
Sensor Input	D-				DC Volt. source, 2 wire input
	2-				Uncharged, 2 wire input
	3-				Uncharged, 3 wire input
Sensor Power supply		5-			None, or +5Vdc supply
		2-			+12Vdc supply
		A-			+24Vdc supply
Output module (Can be check)			N-		None
			B-		AO1 / 4-20mA output module(MD07)
			C-		AO2 / 4-20mA output module(MD07)
			D-		Digital output module(MD06)
			A-		RS485 output module(MD01)
Installation				-PL	Terminal block back cover

2.3 Installation :

2.3.1 Panel installation Cut off



2.3.2 Panel Installation steps

- First take this FX-TA out of the box, and remove the two fixing clips.
- Then push the FX-TA through the holes on the panel.
- Push the meter into position, and at the same time place the fixing clips in the slot and push it to the back of the panel body.
- Reverse operation for disassembly.

2.4 Wiring :

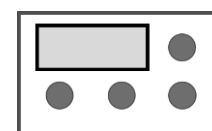
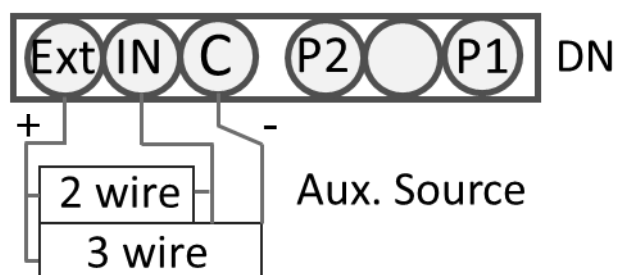
Warning :



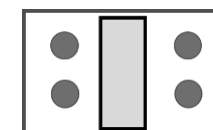
- Before wiring, read the relevant content of this operation manual in detail.
- Wiring work should be performed by qualified electricians.
- The power supply can be started only after all wiring work has been completed.
- It is recommended to use a single-core wire diameter 21#AWG cable for wiring, and the end of the wire is flattened with a wire pliers, and solder is used for rust prevention.
- The wire end must be completely immersed in the terminal hole of the socket, and then use a 3 mm (#1) flat-head electrician screwdriver to tighten the fixing screws on the plug-in terminal block; or use a 5 mm flat-head electrician screwdriver to tighten the fixing screw and fix it on the terminal block.
- Reconfirm that the wiring is correct.

Electrical input
contact
description:

2/3 wire
(Uncharged)



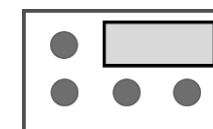
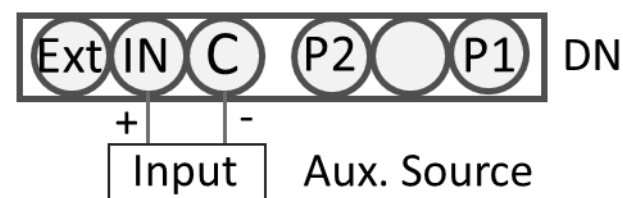
5 V



24 V

Ext. sensor
source /
Jumper :

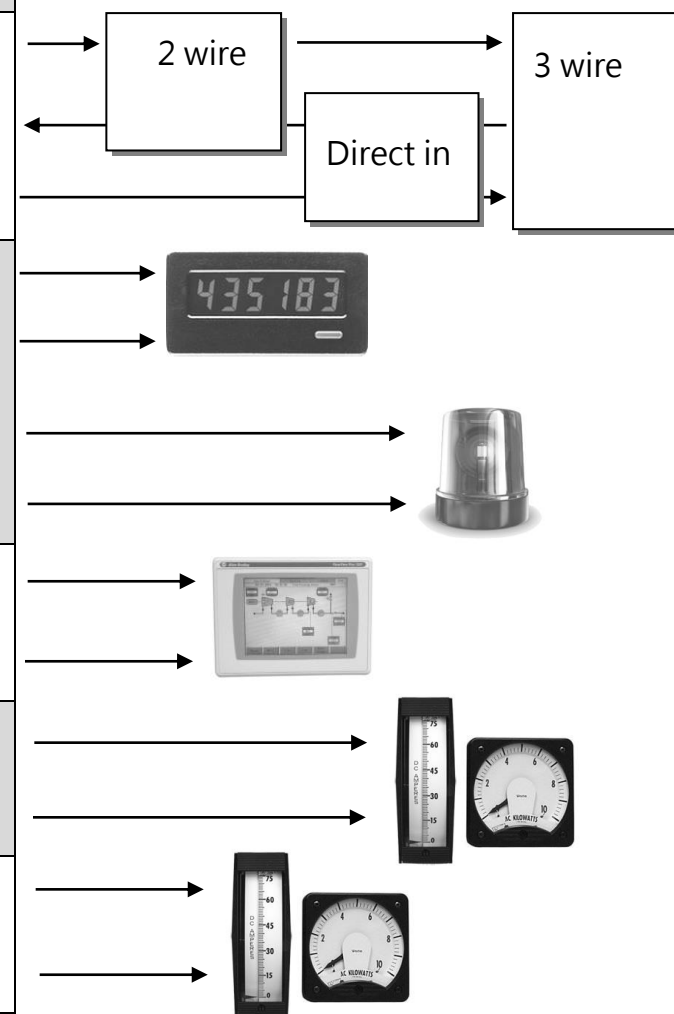
Direct input 2 wire
(DC Volt. source)



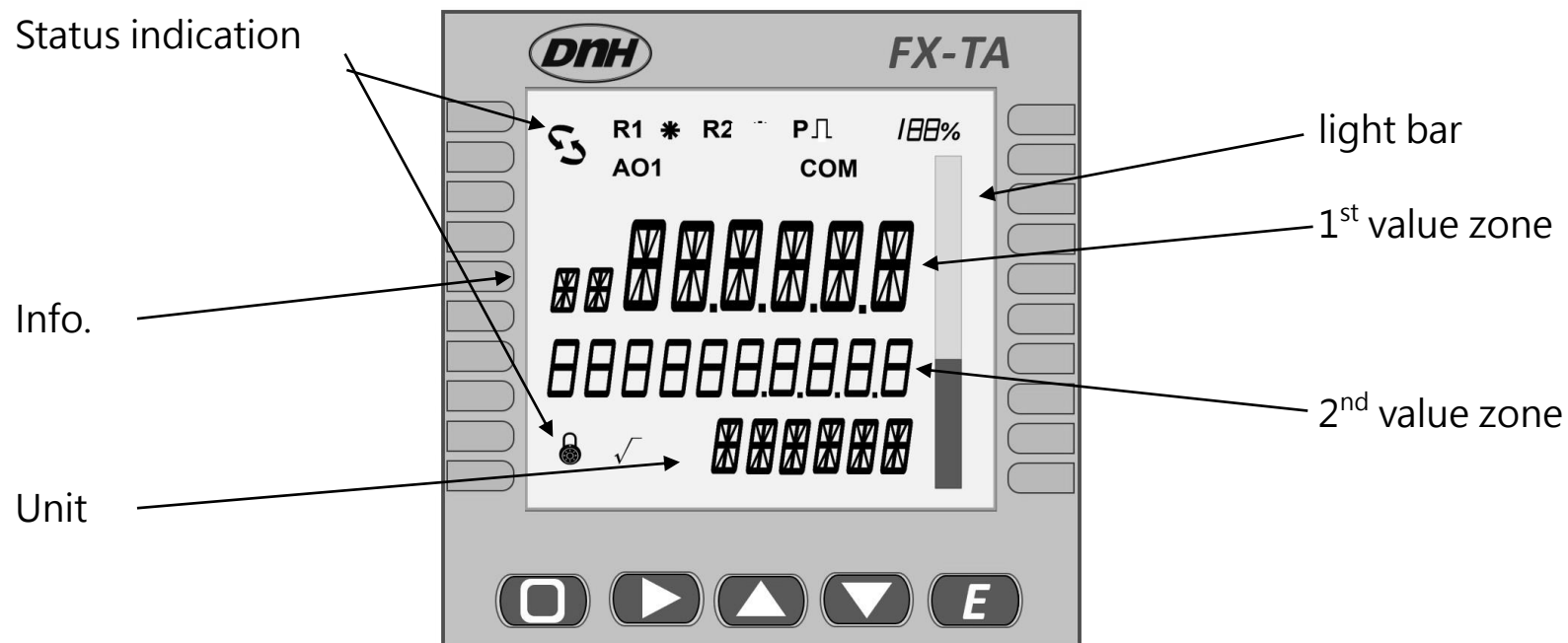
12 V

2.4.1 FX-TA
electrical
contact
description :

Power supply	P1	85 - 265 Vac	Green slot (Lower)
	P2	85 – 265 Vac	
Flow sensor input (4-20mA input)	Ext	Vdc+	White slot (Lower)
	IN	Signal in	
	C	GND	
Digital Output (Pos. D)	1a	1. Pulse	MD06
	1G		
	2a	2. Relay	
	2G		
RS485(Modbus RTU)(Pos. A)	A+	TxD+ / RxD+	MD01
	B-	TxD- / RxD-	
4-20mA Output AO1 (Pos. B)	1+	AO+	MD07
	1-	AO-	
4-20mA Output AO2 (Pos. C)	1+	AO+	MD07
	1-	AO-	



2.5 Display :



- 1st & 2nd value zone : It can display 6-digit flow rate (F), 10-digit resettable flow total value (T1), 10-digit non-resettable flow total value (T2), Info. items can be displayed on the setting layer; and error information .
- Status indication as below.

Status indication		: Flow signal input (measuring) .(Up and down symbols are displayed alternately, once per second) If there is no input, the symbol disappears.
	P II	: R1 startup as scaled pulse output.
	COM	: RS485 Modbus RTU.
	R2	: R2 startup as Relay2, when engine * showed.
	T1	: Resettable flow cumulative value.
	T2	: Non-Resettable flow cumulative value.
	AO1	: 4-20mA output module connection.
	AO2	: 4-20mA output module connection.
		: Square root the input value.
		: Password lock in progress.

3. Operation :

Operation
button
description :

	Up key; select options forward; or increase in value.
	Down key; select options later; or value change decreases.
	Enter key; After selecting an option, enter the option content. Shift key; used for numerical cursor or decimal displacement.
	Confirm key; confirm the execution after input a value or select an option.
	Compound function key or return key; return to sub-menu option.
	On the display layer, press and hold for 3 seconds at meantime to enter the setting layer. At the setting or advanced layer, press and hold for 3 seconds at meantime to save the parameters and return to the display layer.
	On the display layer, press and hold for 3 seconds at meantime to enter the advanced layer.
	Under the total T1, press and hold for 3 seconds at meantime, and

	the value will reset to zero.
--	-------------------------------

After booting up, you will first see the welcome screen and the serial number of the machine, a eight codes. For example:

Welcome screen ***FX-TA*** and

SN

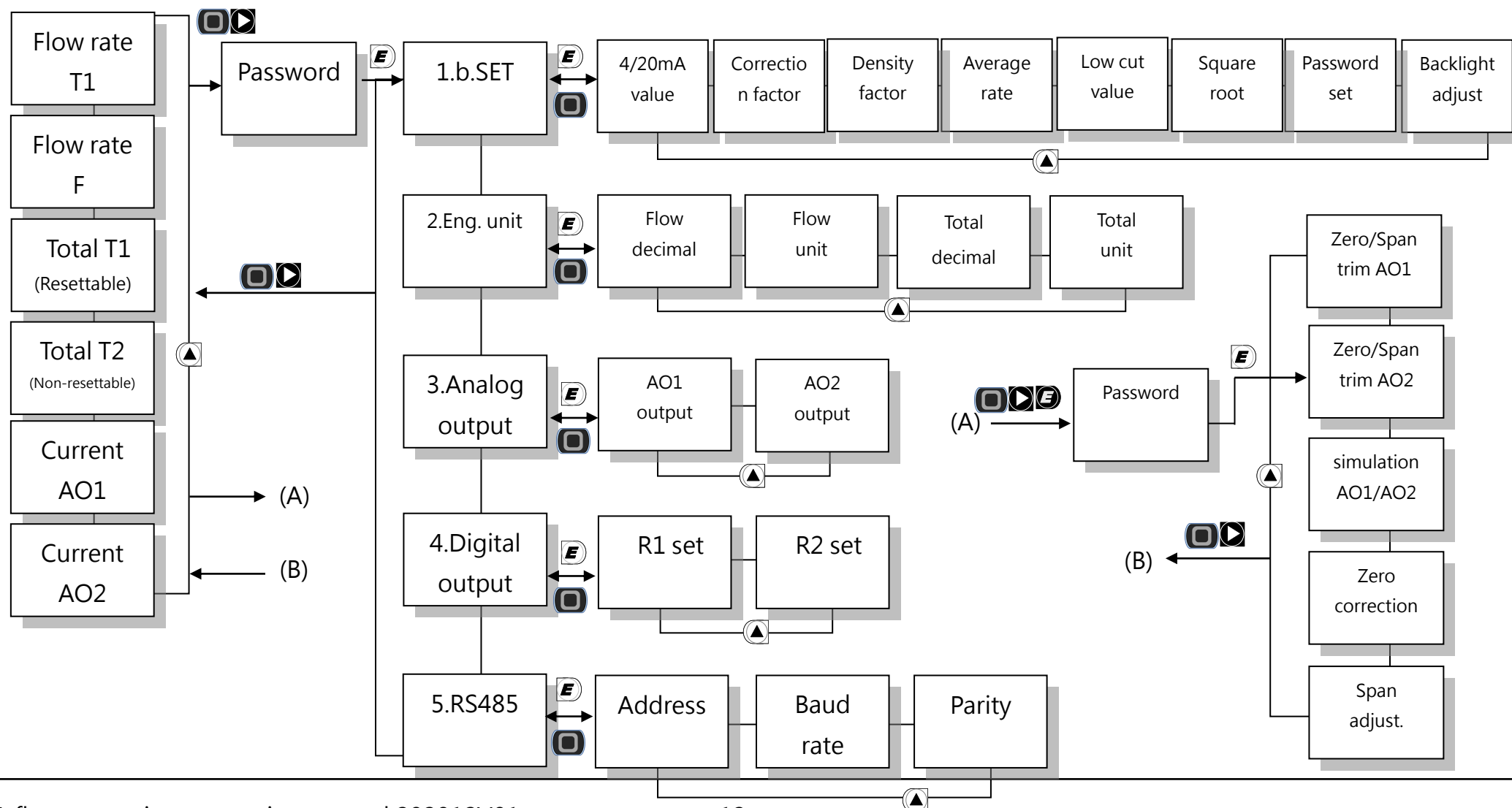
20170123 Indicates the year of manufacture (2017) and machine number (0123).

(defined in the advanced specific layer)

ET 01V.02 Indicates the software version (01), the second revision (V.02).

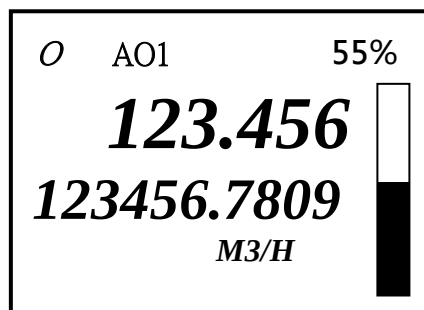
(defined in the advanced specific layer)

Quick Start Chart

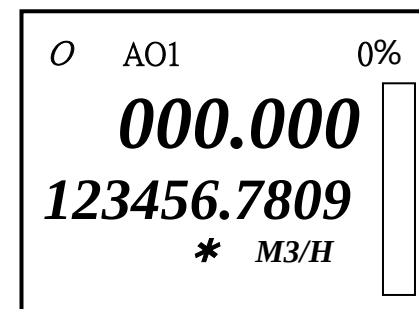
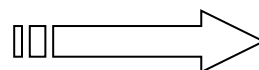


3.1 Display Layer :

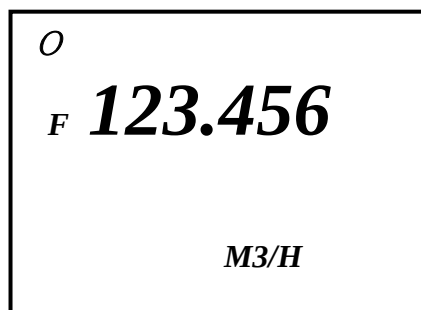
3.1.0 Display
flow F and Total
T1



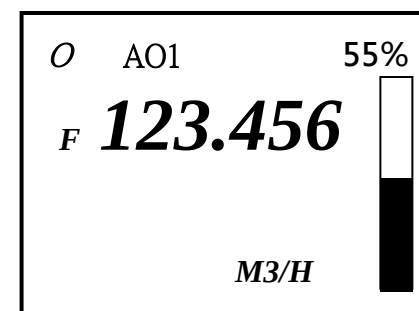
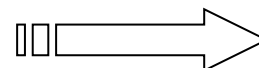
When value below
setting, but >0, flow rate
display 0, and total will
increase, front unit will
add * sign as
discriminant.



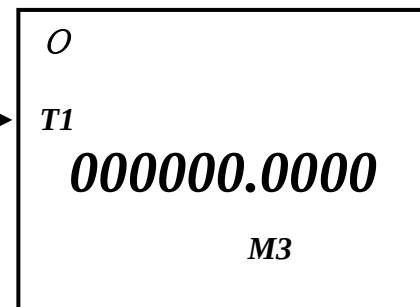
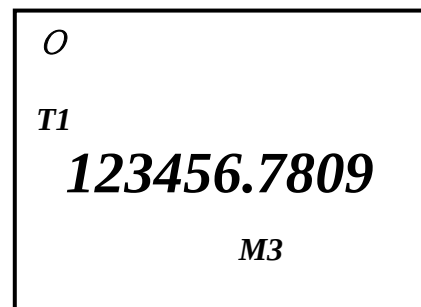
3.1.1 Flow rate
F
(0 – 999999)



With output, show

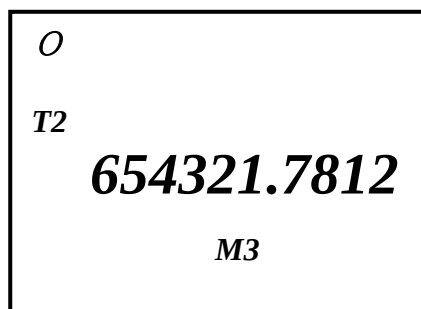


3.1.2
Resettable Total
T1 (000000.0000 –
9999999999)

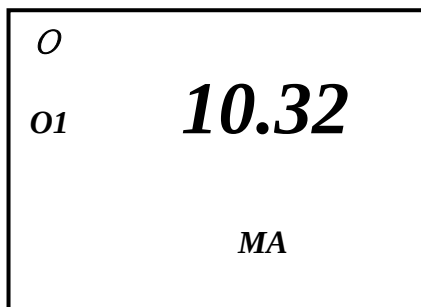


3.1.3 Non- Resettable Total

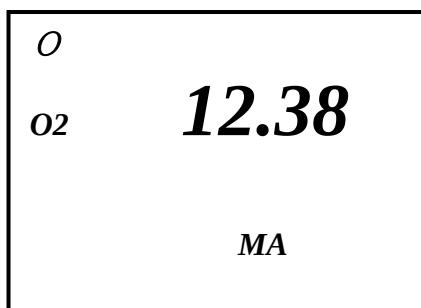
T2 (000000.0000 –
9999999999)



3.1.4.a Current output **AO1** (0.00 – 99.99)



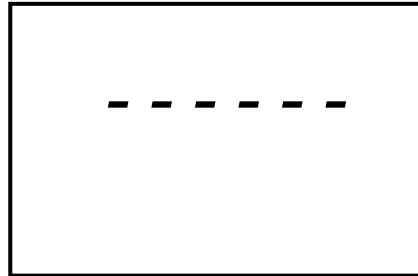
3.1.4.b Current output **AO2** (0.00 – 99.99) (Optional, if not, display 0.00)



If any screen is left for more than 2 minutes, the screen will automatically jump back to 3.1.0

3.2 Setting Layer :

- On any screen on the display layer, press **□▶** keys 3 sec. enter setting layer.
- On any screen of the setting layer, press **□▶** keys 3 sec. go back display layer,



Save all change at meantime.

(The screen go back & save, one dotted line appeared)

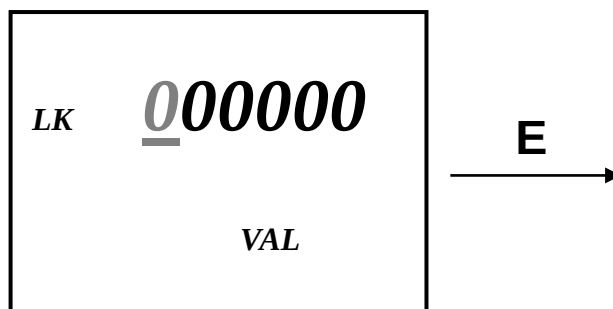
- On any screen of the setting layer, if it is left for more than 2 minutes without any input, it will jump to the display layer without saving any changes.

Sub-Layer :

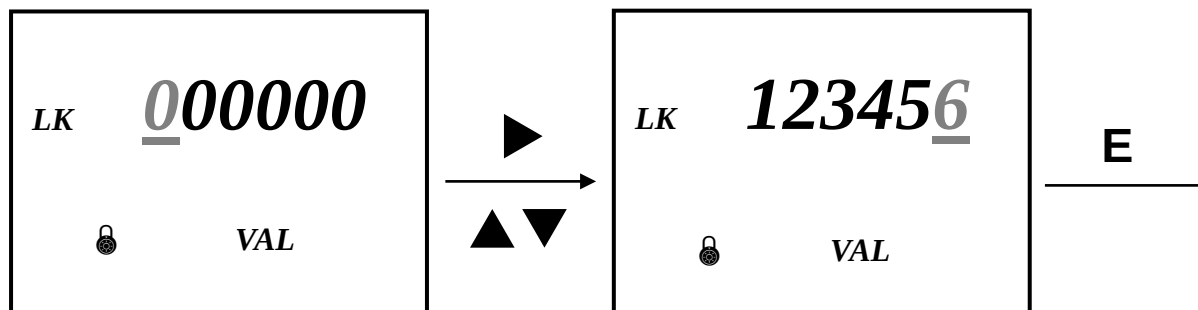
- 1.b.SET -	Basic setting
- 2.UNIT -	Engineering unit settings
- 3.AOP -	Analog signal input setting
- 4.dOP -	Digital output, Scaled pulse 、 Relay Action
- 5.COMM -	RS485(MODBUS)

Entry Password

Enter the setting layer, need to input password, the default is 000000.

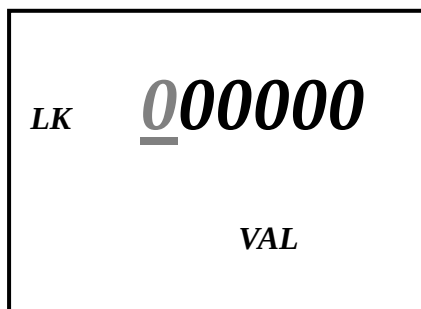


If there is a set password, you must enter the password (such as: 123456) before you can enter.
If there is no action within 10 seconds, then it will automatically jump back to the display layer.

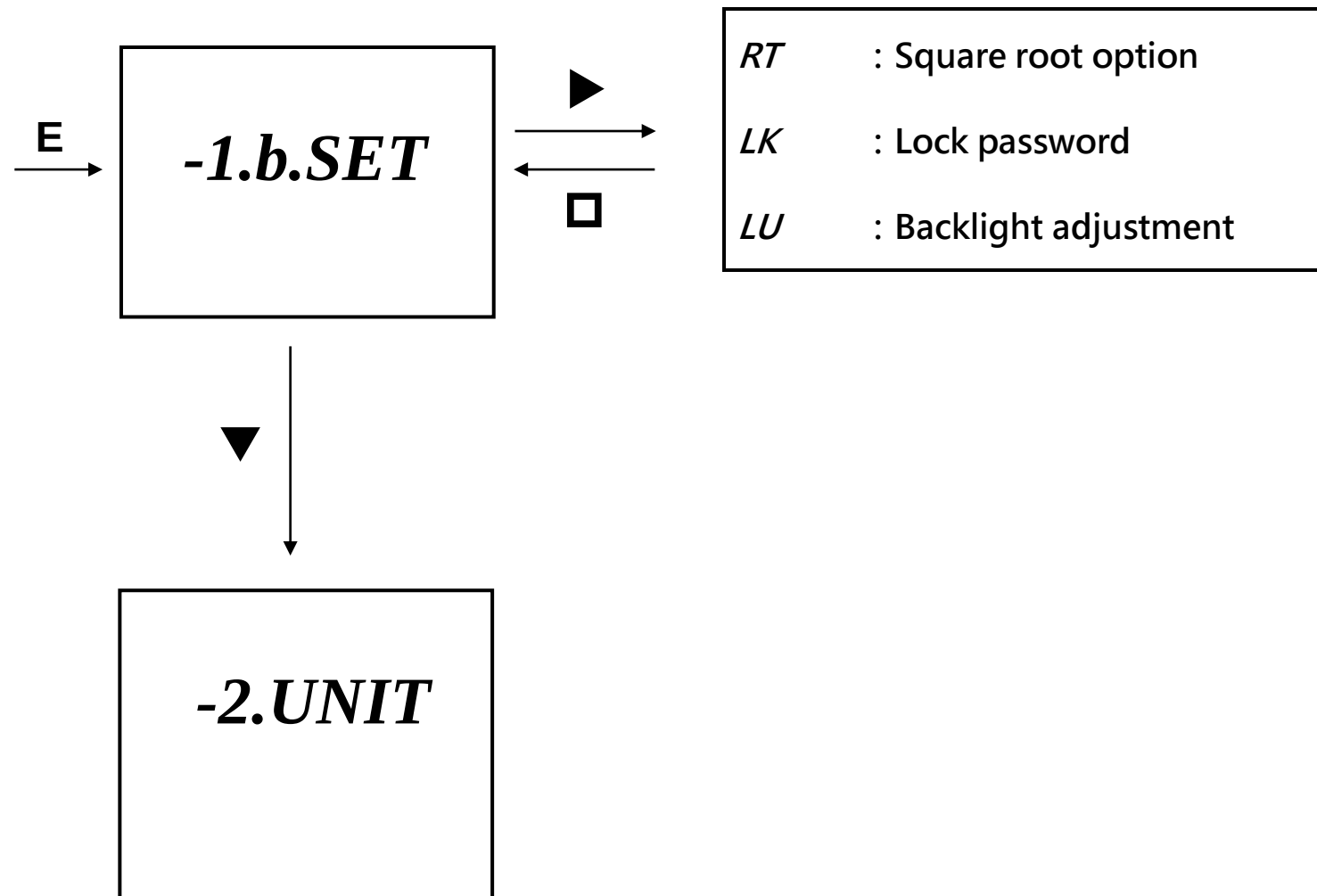


When the set password is lost (forgotten), you can use Master Code to unlock the password,
The Master Code is 005214.

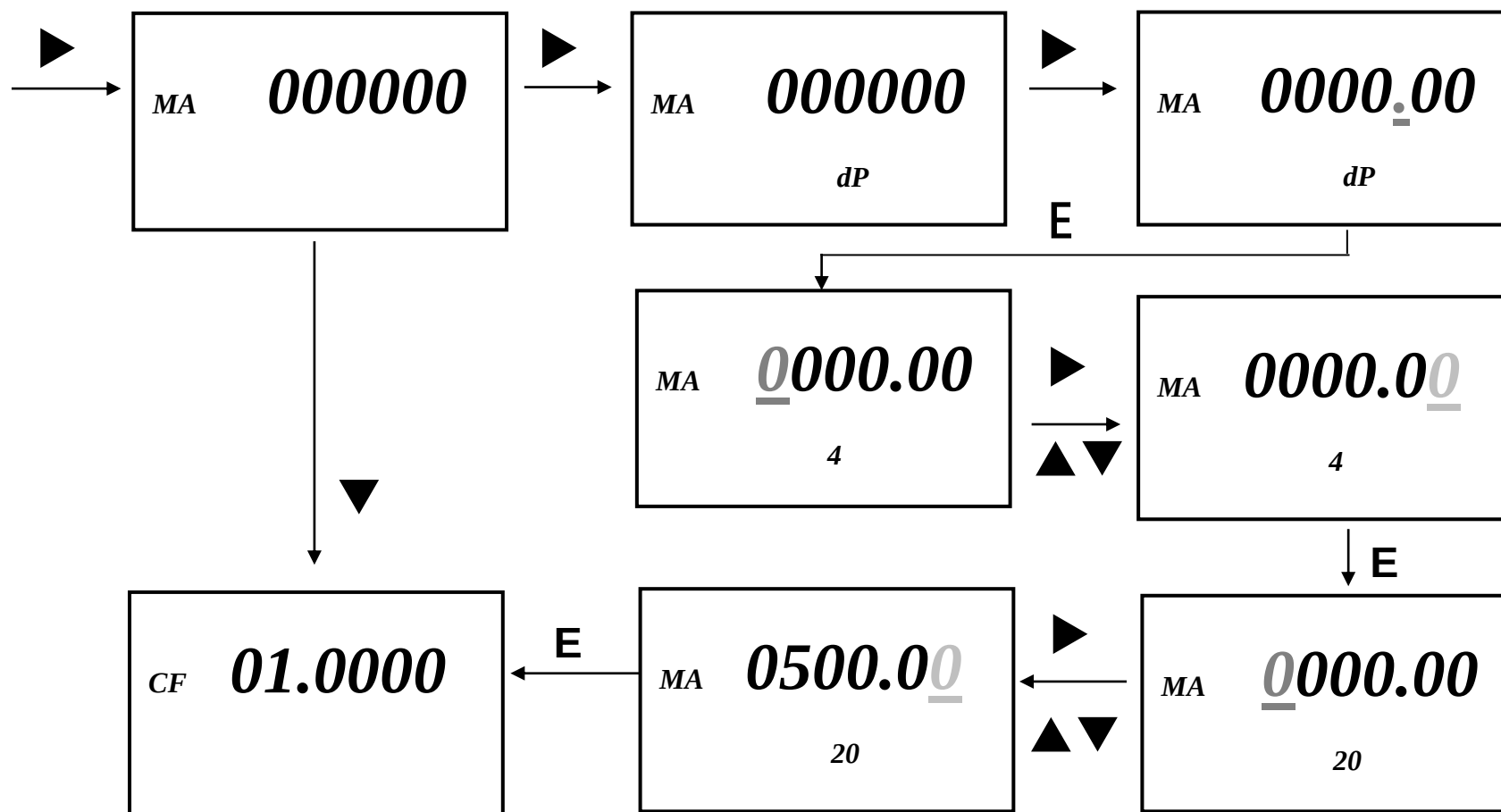
3.2.1 " - 1.b.SET - Basic Setting



<i>MA</i>	: The corresponding value
<i>CF</i>	: Correction factor
<i>dS</i>	: Density factor
<i>AG</i>	: Average rate
<i>LC</i>	: Low-cut value



3.2.1.1 The corresponding value MA · 000000 – 999999 (Default : 000000)



- Determine the number of decimal places, the cursor flashes on the decimal point, move the decimal point with ►, press E key to confirm.
- Enter the corresponding value, shift with ►, change the value with ▲▼, press E key to

confirm. (go to 3.2.1.2)

- The corresponding value unit is the same as the instantaneous flow unit.

3.2.1.2

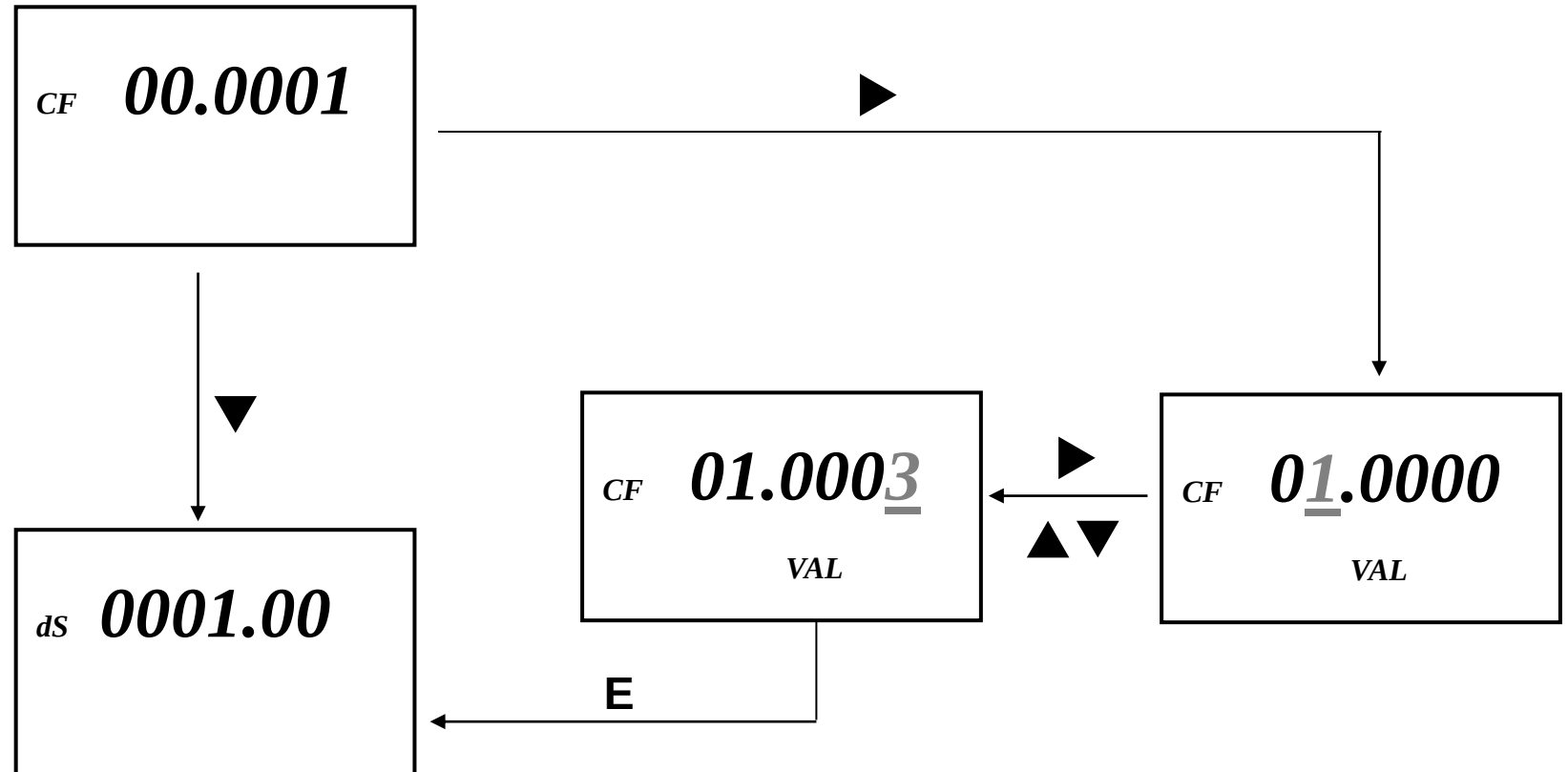
Correction

factor CF ·

00.0001 –

99.9999

(Default : 01.0000)



- Enter the value, shift with ►, change the value with ▲▼, press E key to confirm. (go to 3.2.1.3)

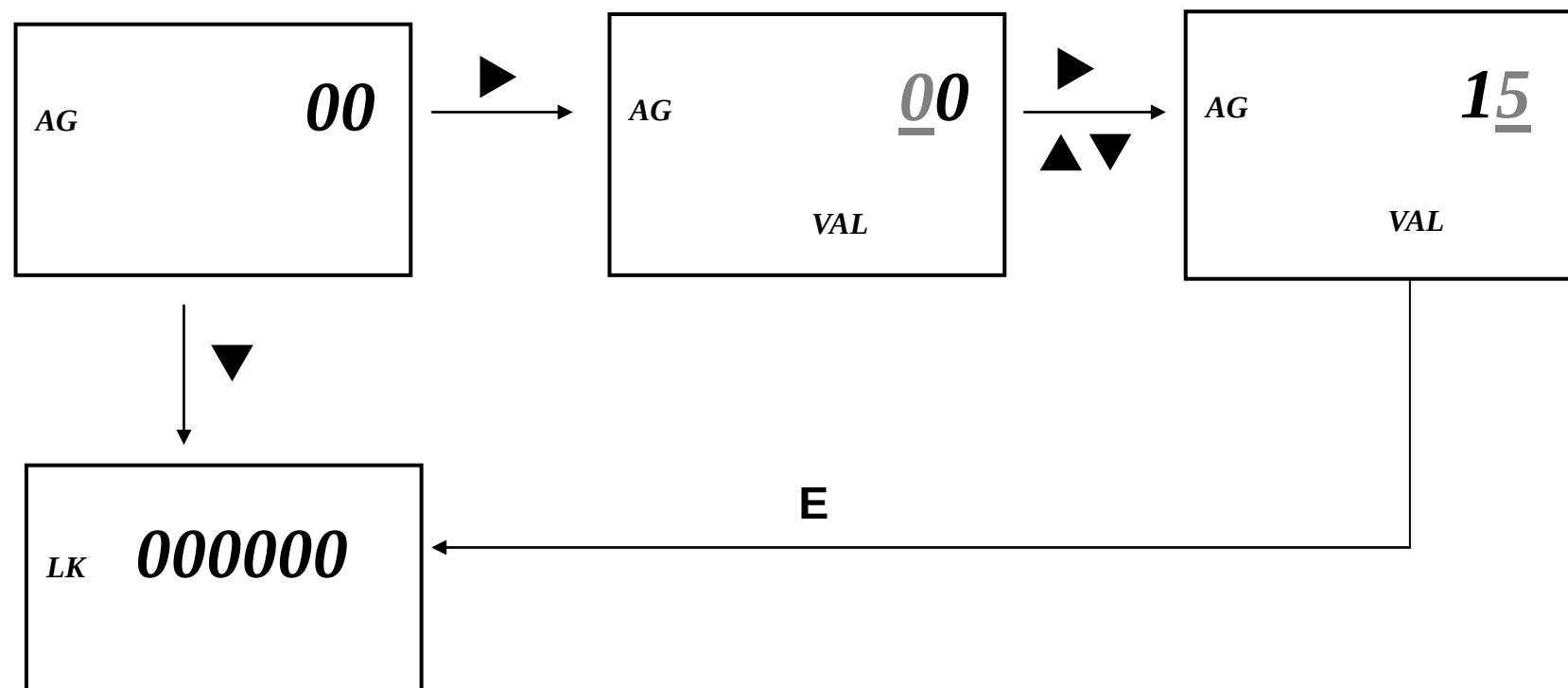
This value is used to correct the deviation of the instrument.

3.2.1.4 Average

rate AG · 00 –

99

(Default : 00)

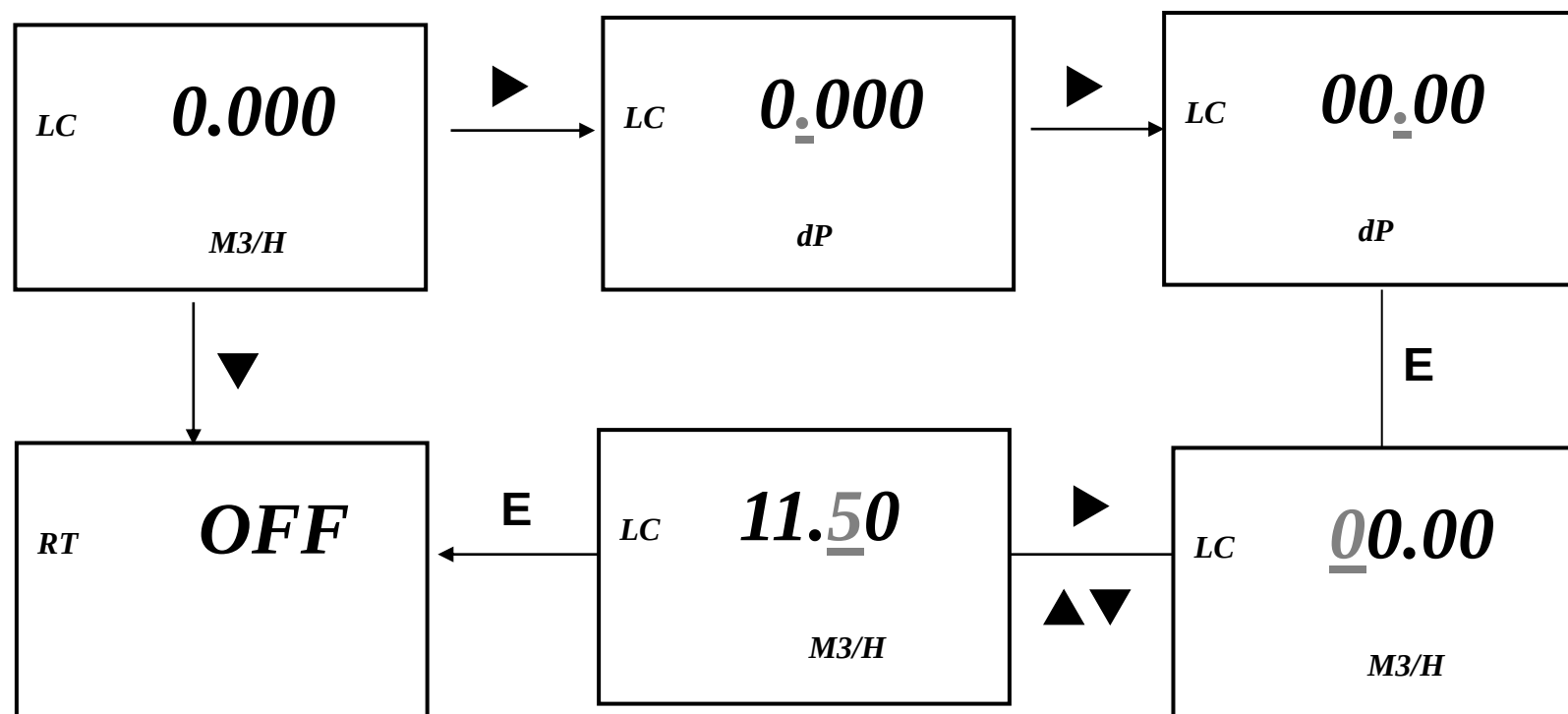


- The cursor flashes at the tens digit and is shifted by ▶, change the value with ▲▼, press E key to confirm. (go to 3.2.1.5)
- Select range 00~99s, Take the average of the sampled values in this period of time. The larger the set value, the more gradual the changes in the instantaneous flow rate display.

3.2.1.5 Low-cut

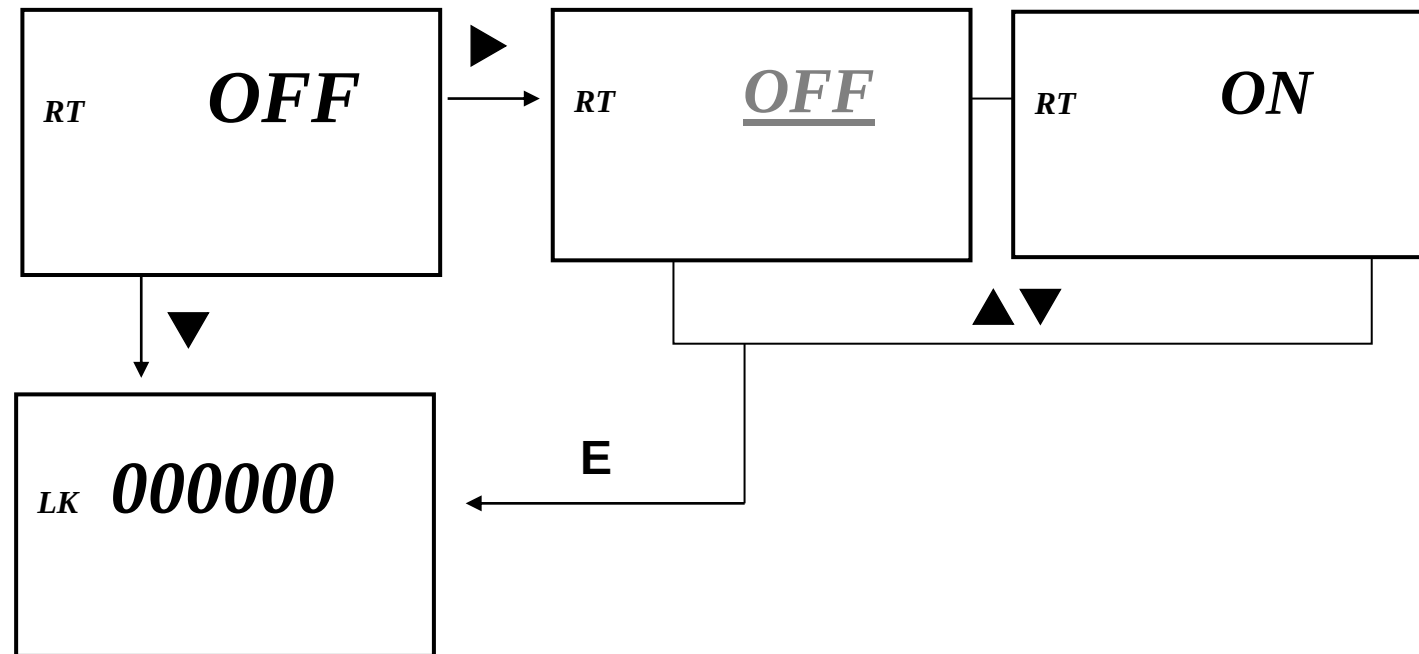
LC · 0.000 –
9999

(Default : 0.000)



- The cutoff value is based on the unit of the instantaneous display value, and the instantaneous value below the set value is displayed as 0, and does not accumulate.
- Shifted by ►, change the value with ▲▼, press E key to confirm. (go to 3.2.1.6)

3.2.1.6 Square root option (Default : OFF)



- With ▲▼ rolling the items, press E key to confirm. (go to 3.2.1.7)
- Select **ON** item, display layer will show $\sqrt{\quad}$ symbol indicates that this operation is done.
- For example : When using the differential pressure method to measure fluid flow, the value is necessary to do square root calculation.

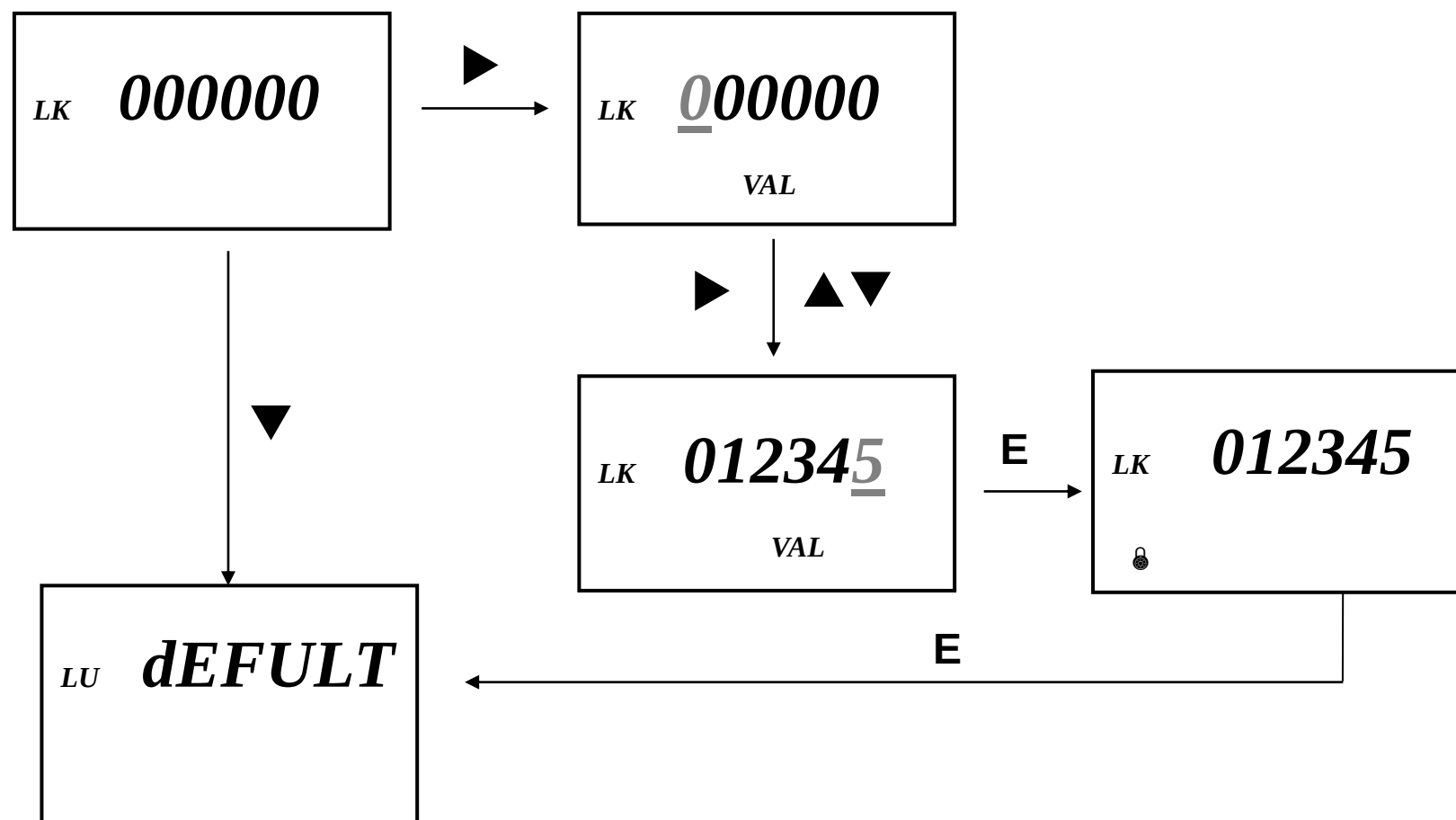
3.2.1.7 Lock

password LK

000000 -

999999

(Default : 000000)

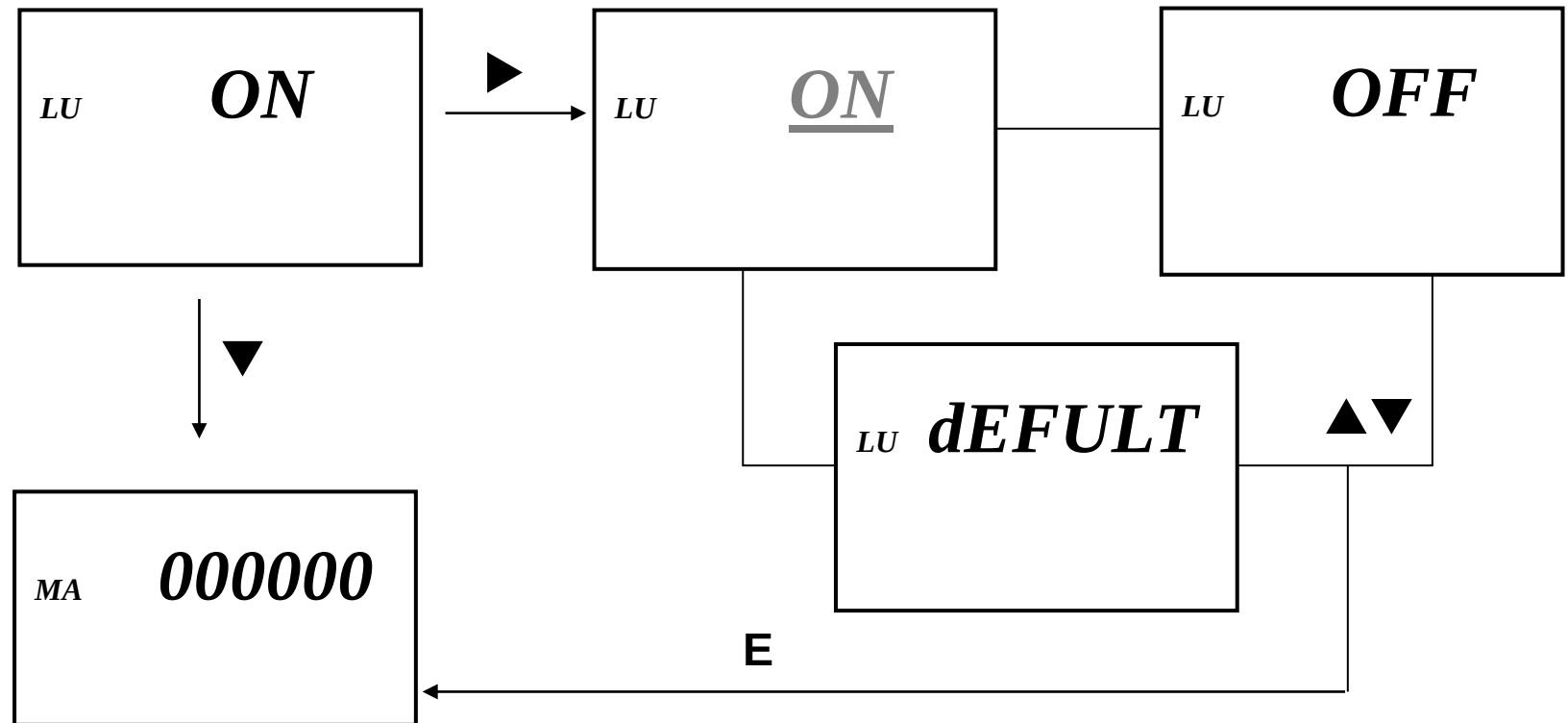


- Shifted by ►, change the value with ▲▼, press E key to confirm ; screen will add an sign 🔒 , press E key again. (go to 3.2.1.8) .

3.2.1.8

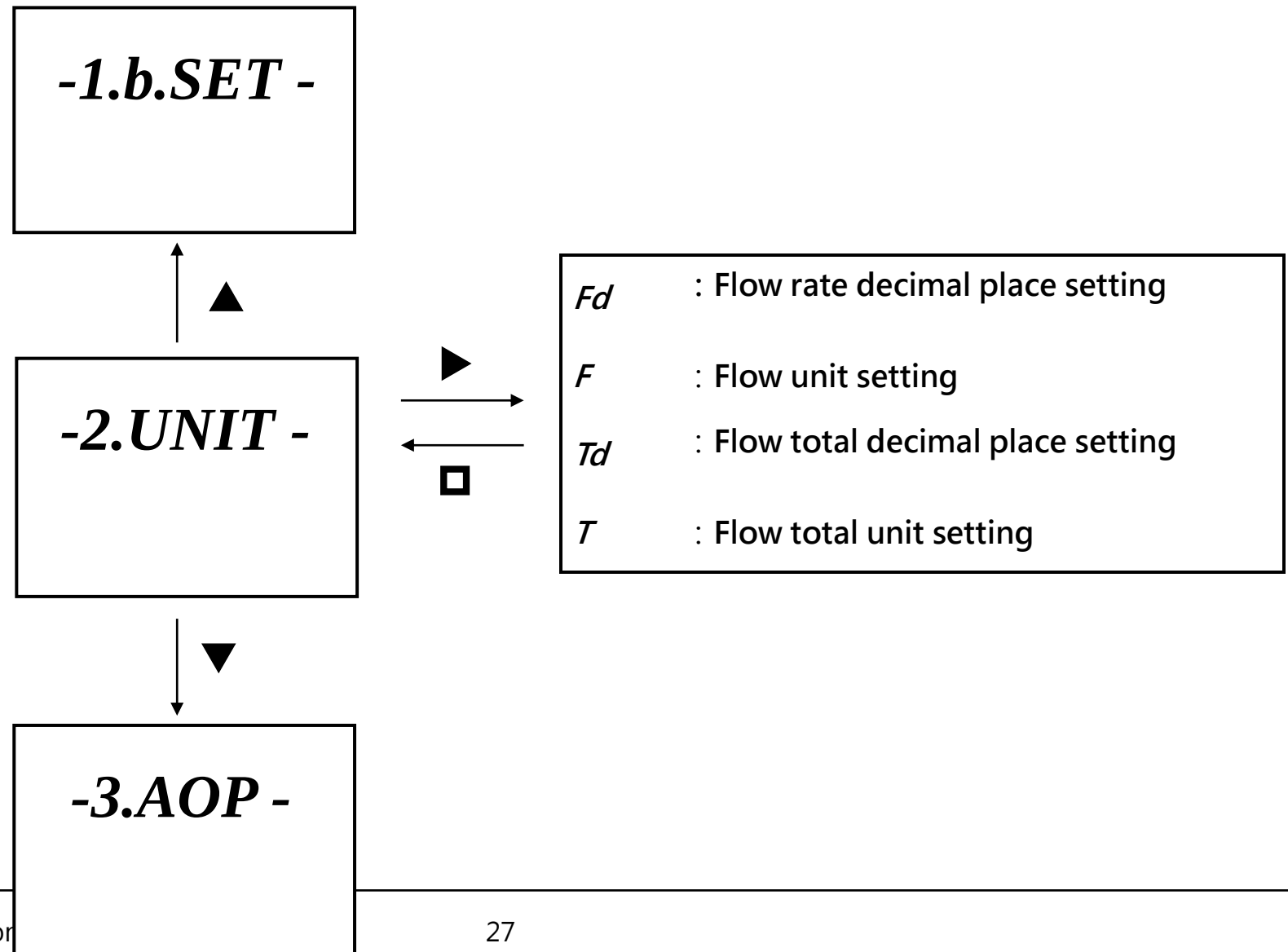
Backlight
adjustment

LU,
(Default : default)



- Shifted by ►, change the option with ▲▼, press E key to confirm. (go back 3.2.1.1)
- DEFAULT(dEFAULT), press any key after 10 s without touch, backlight off.

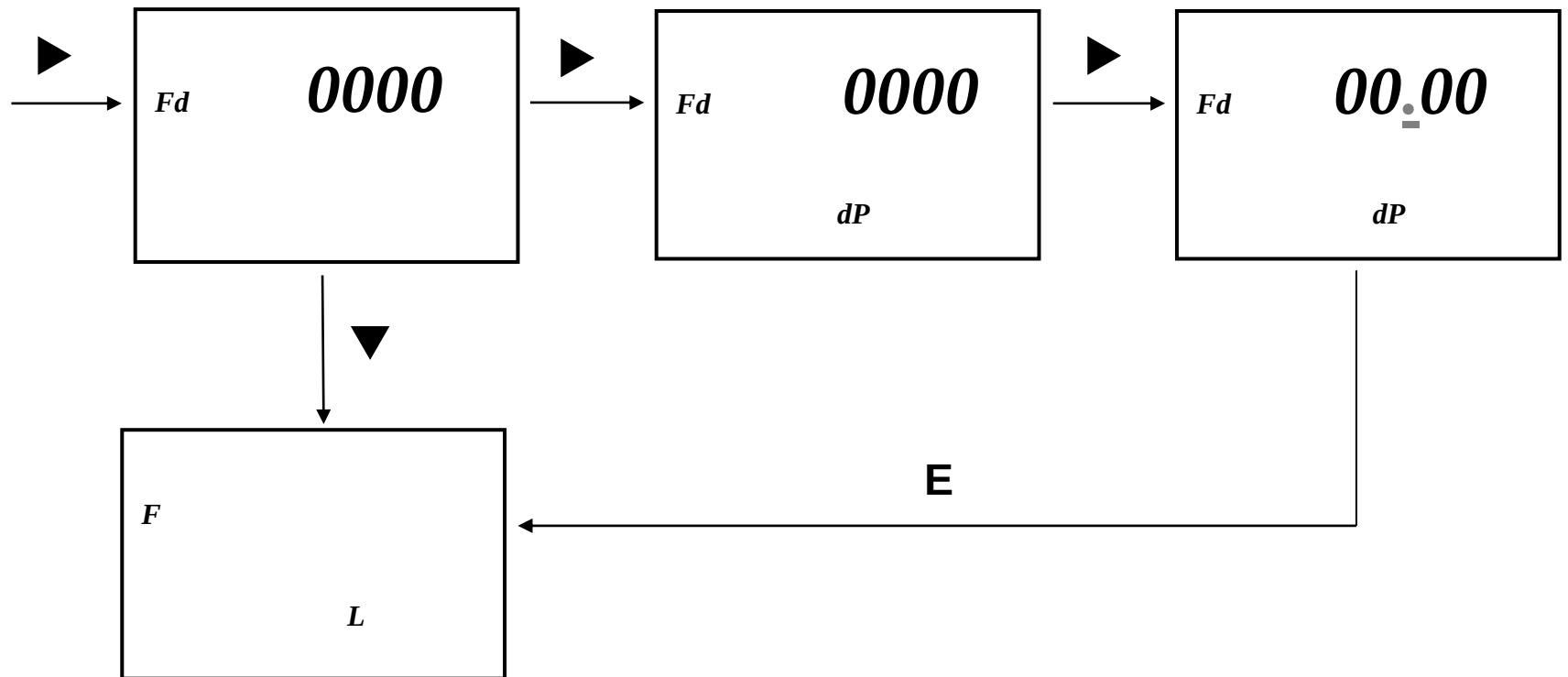
3.2.2 “- 2.UNIT - Unit setting



3.2.2.1 Flow

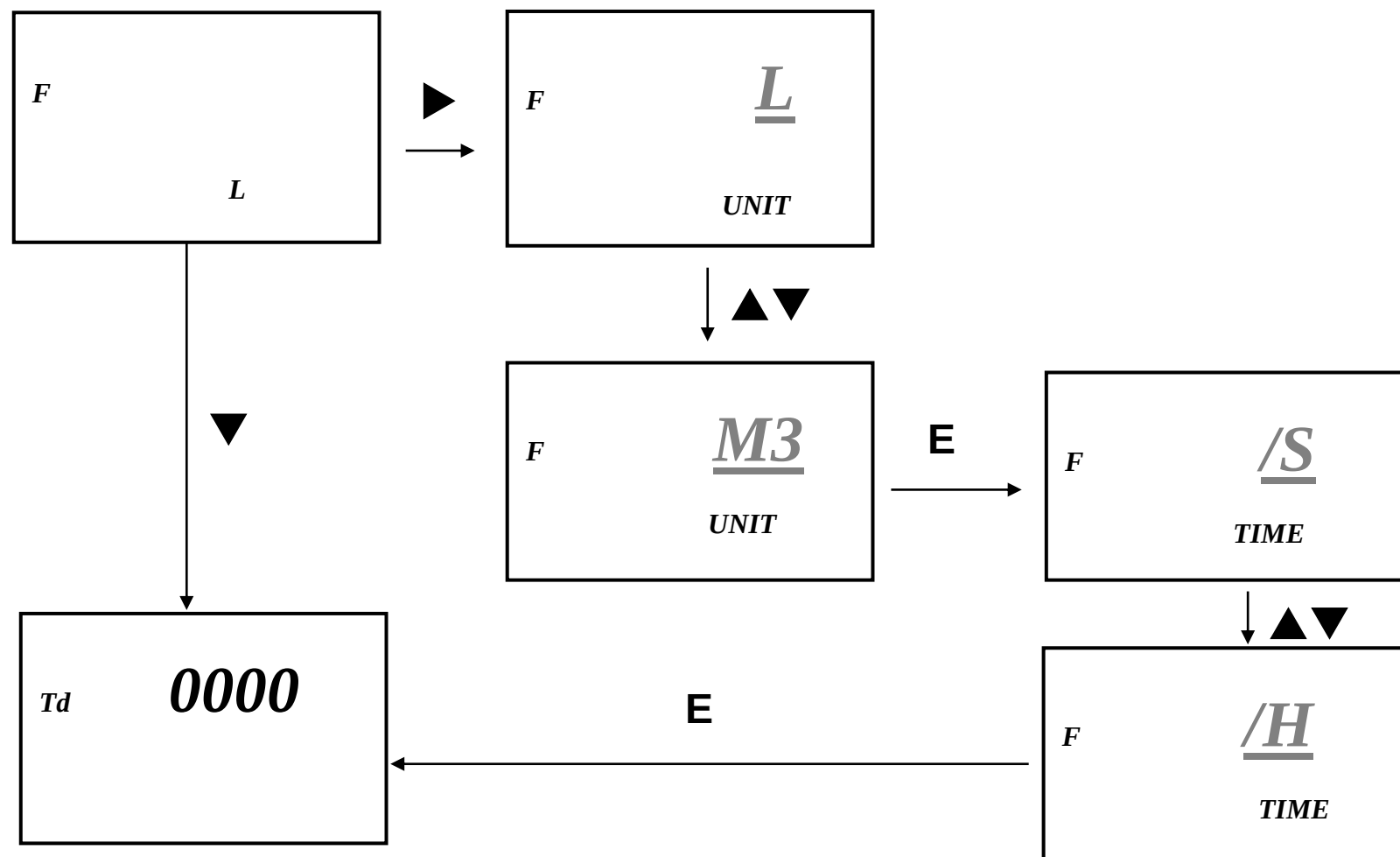
rate decimal
place setting

$Fd \cdot 0.000 -$
0000 (Default
0000)



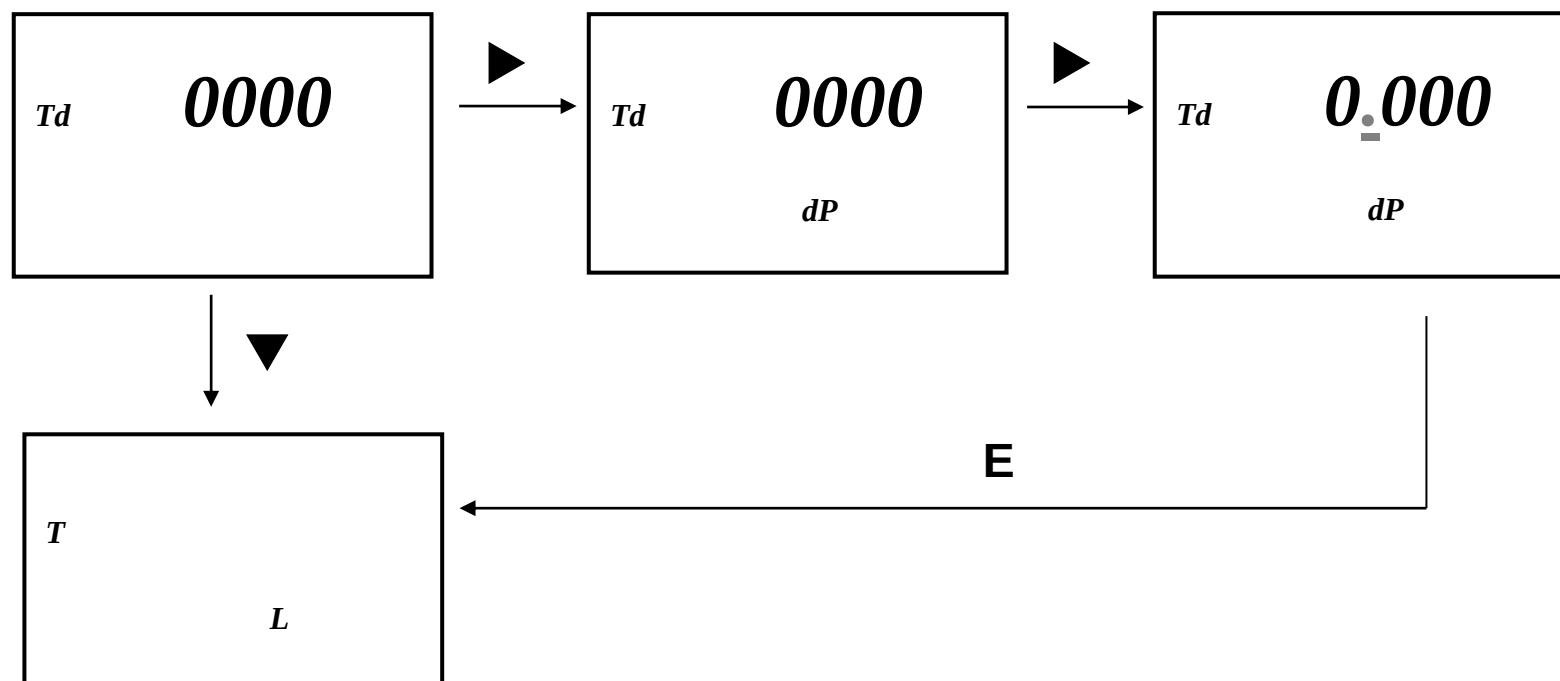
- Shift the decimal point by ►, press E key to confirm. (go to 3.2.2.2)

3.2.2.2 Flow unit setting (Default L, /S)



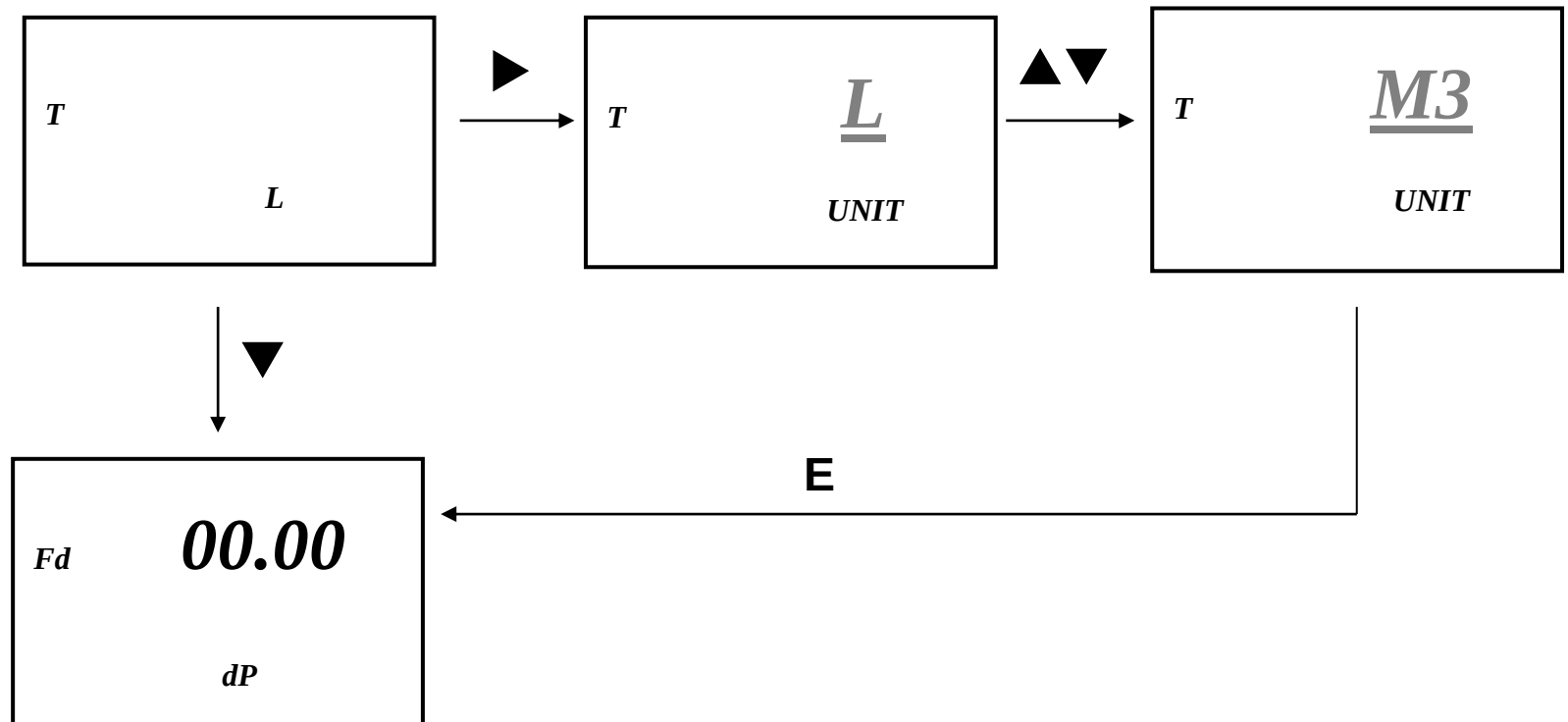
- Use ▲▼ to select the volume or weight unit, press E key to confirm.
- Use ▲▼ to select the time unit, press E key to confirm. (go to 3.2.2.3)
- The volume unit are ML, L, M3, GAL, Ft3, NL, NM3, SFt3, the mass unit are KG, Lb, TON.
- The time unit are /S, /M, /H, /d.

3.2.2.3 Total
decimal place
setting Td ·
0.000 – 0000
(Default 0000)



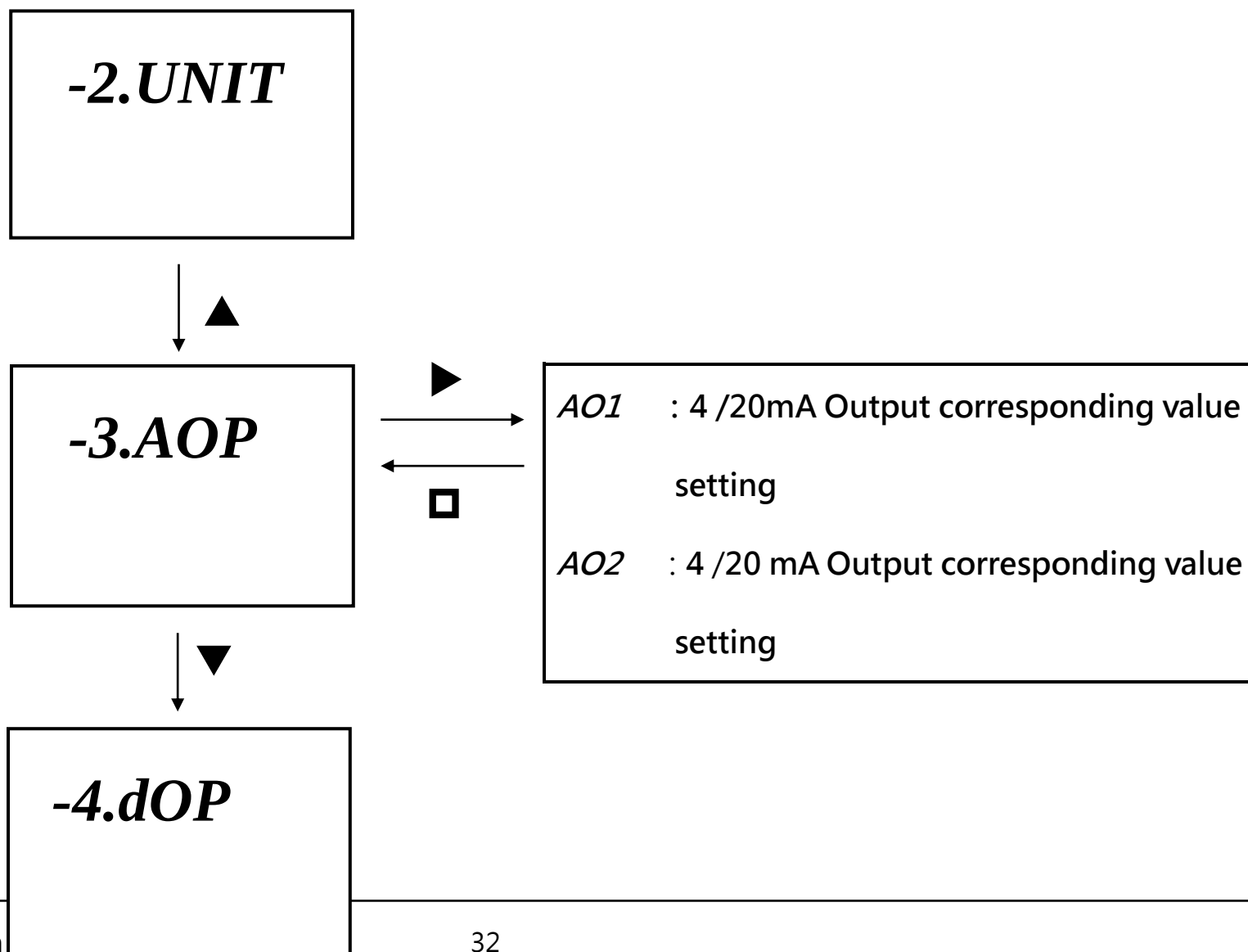
- Shift the decimal point by ►, press E key to confirm. (go to 3.2.2.4)

3.2.2.4 Flow total unit setting (Default L)

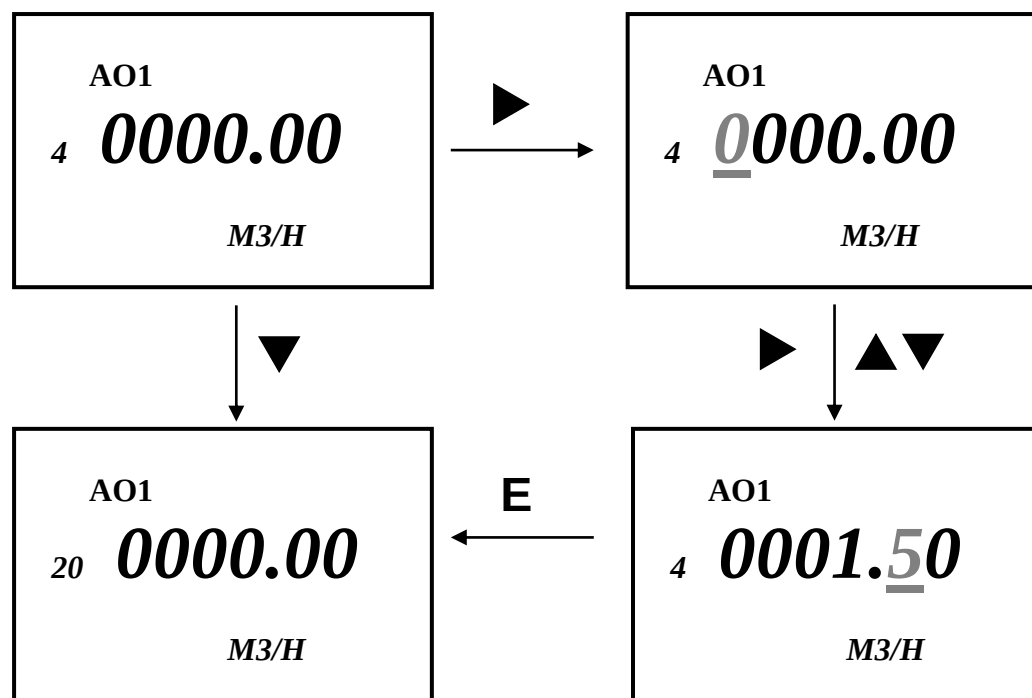


- Use ▲▼ to select the volume or weight unit, press E key to confirm. (go back 3.2.2.1)
- The volume unit are ML, L, M3, GAL, Ft3, NL, NM3, SFt3, the mass unit are KG, Lb, TON.
- Mass = Volume x Density
- If unit show the standard condition N or S, which follow the input meter unit ; **FX-TA is no temperature and pressure compensation calculation function.**

3.2.3 “- 3.AOP - ” Analog signal input setting

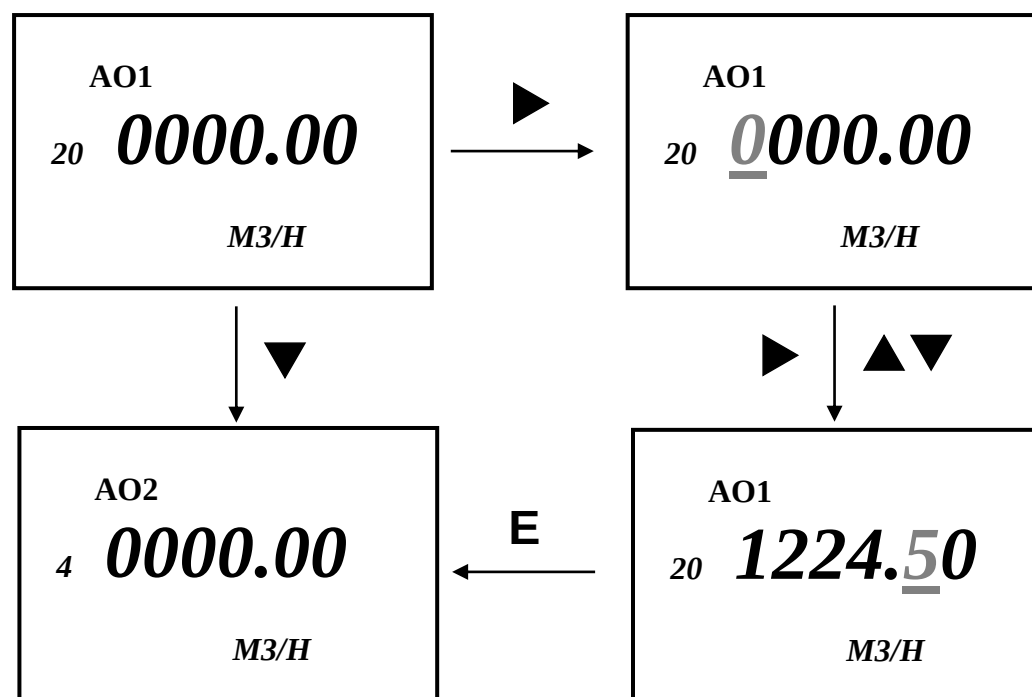


3.2.3.1 AO1 /
4 mA Output
corresponding
value setting
-99999 -
999999
(Default 0000.00)



- Shifted by ►, change the value with ▲▼, press E key to confirm. (go to 3.2.3.2)
- The number of decimal places and units are the same as the previous settings and cannot be changed.

3.2.3.2 AO1 /
20 mA Output
corresponding
value setting
-99999 -
999999
(Default 0000.00)

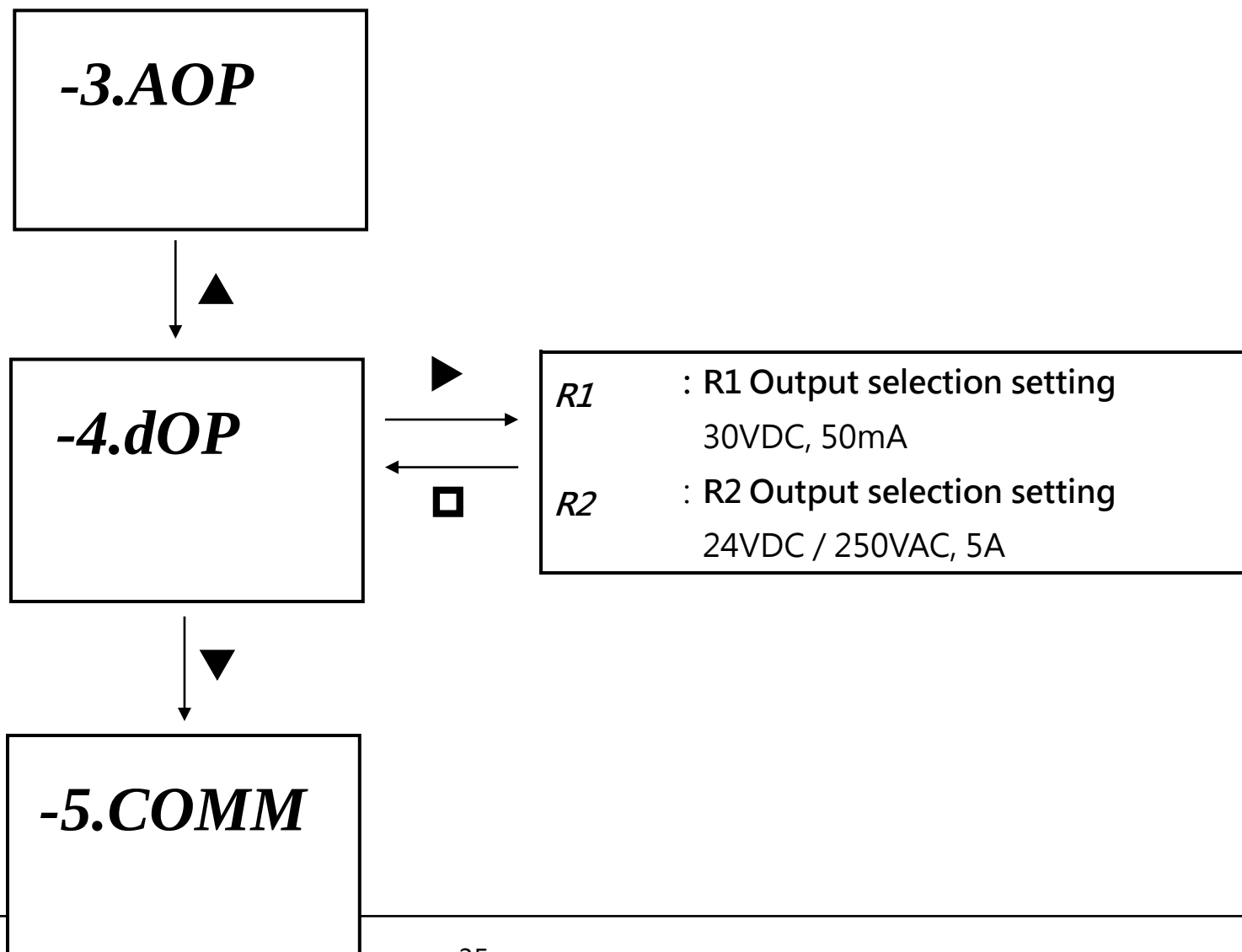


- Shifted by ►, change the value with ▲▼, press E key to confirm. (go back 3.2.3.1)
- The number of decimal places and units are the same as the previous settings and cannot be changed.

3.2.3.4 AO2
Output Option

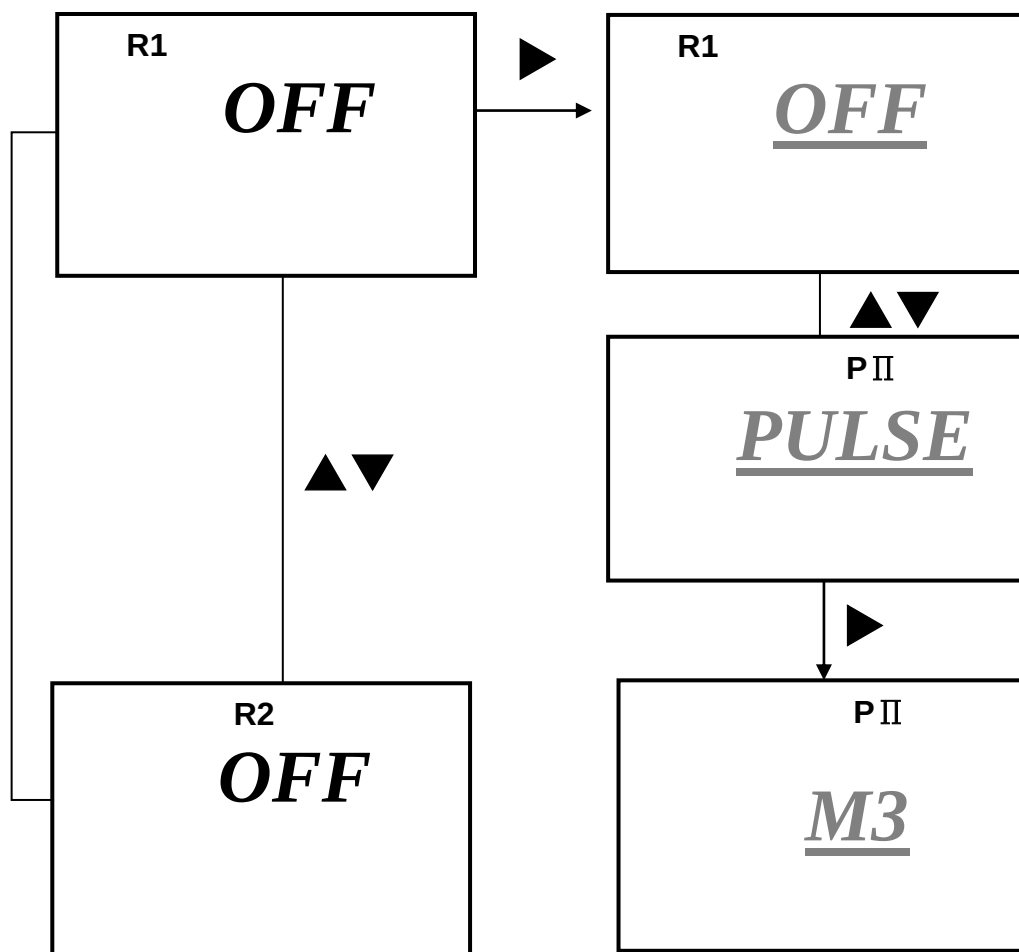
Setting same as AO1, This output is to transfer the input analog signal directly (without processing such as square root the signal).

3.2.4 “- 4.dOP - ” Digital output



3.2.4.1

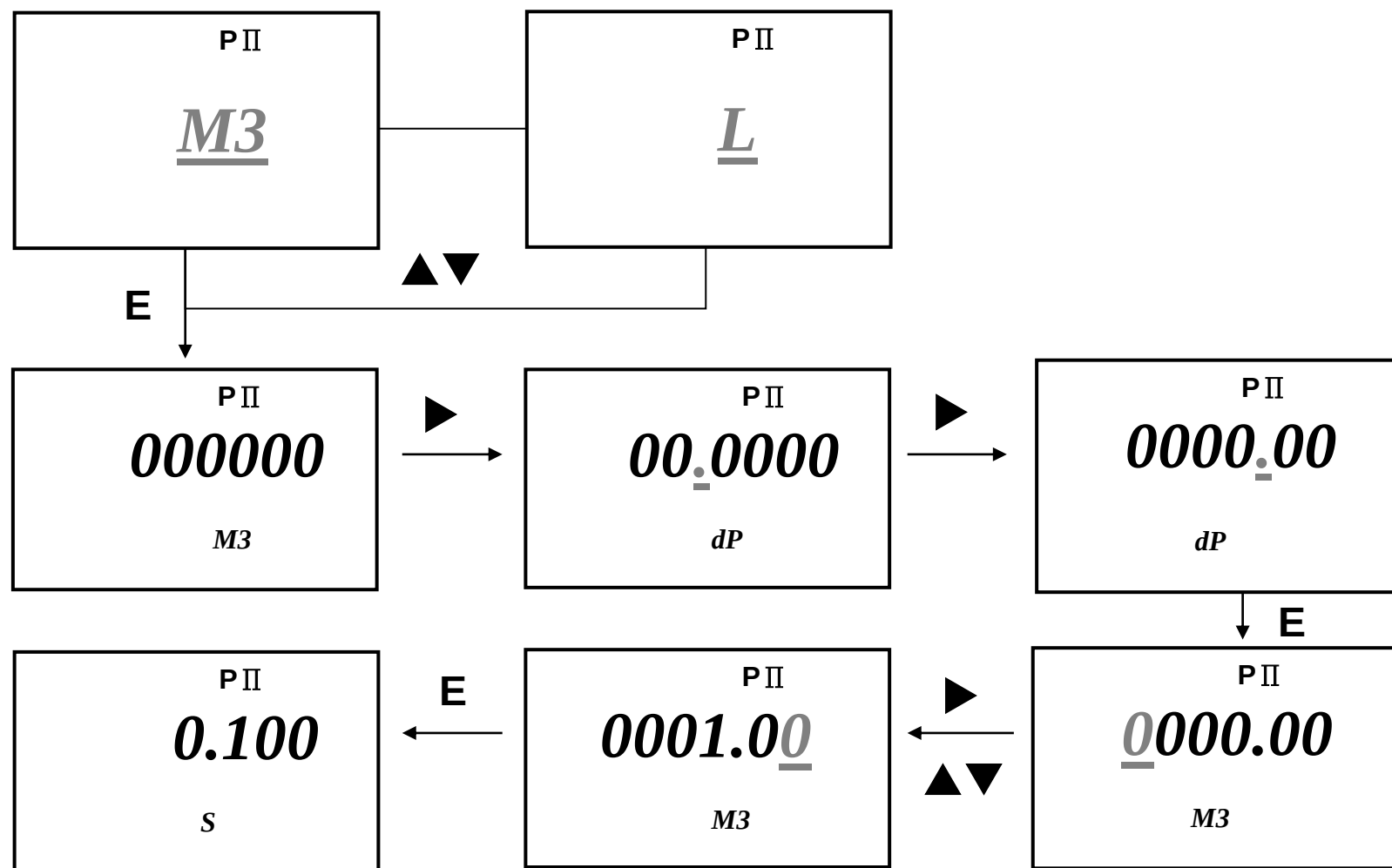
Output
selection –
Scaled pulse
(Default OFF)



Note : FX-TA scaled pulse R1 use Open Collector, load 30V DC, Max. 50mA ; Therefore, if necessary, please add a raising resistor.

3.2.4.2 O.C.1

(R1) Open collector,
Selecting
PULSE,
Define the
equivalent
value of each
pulse output
(P II appeared)



Caution :
Avoid AC
volt. input

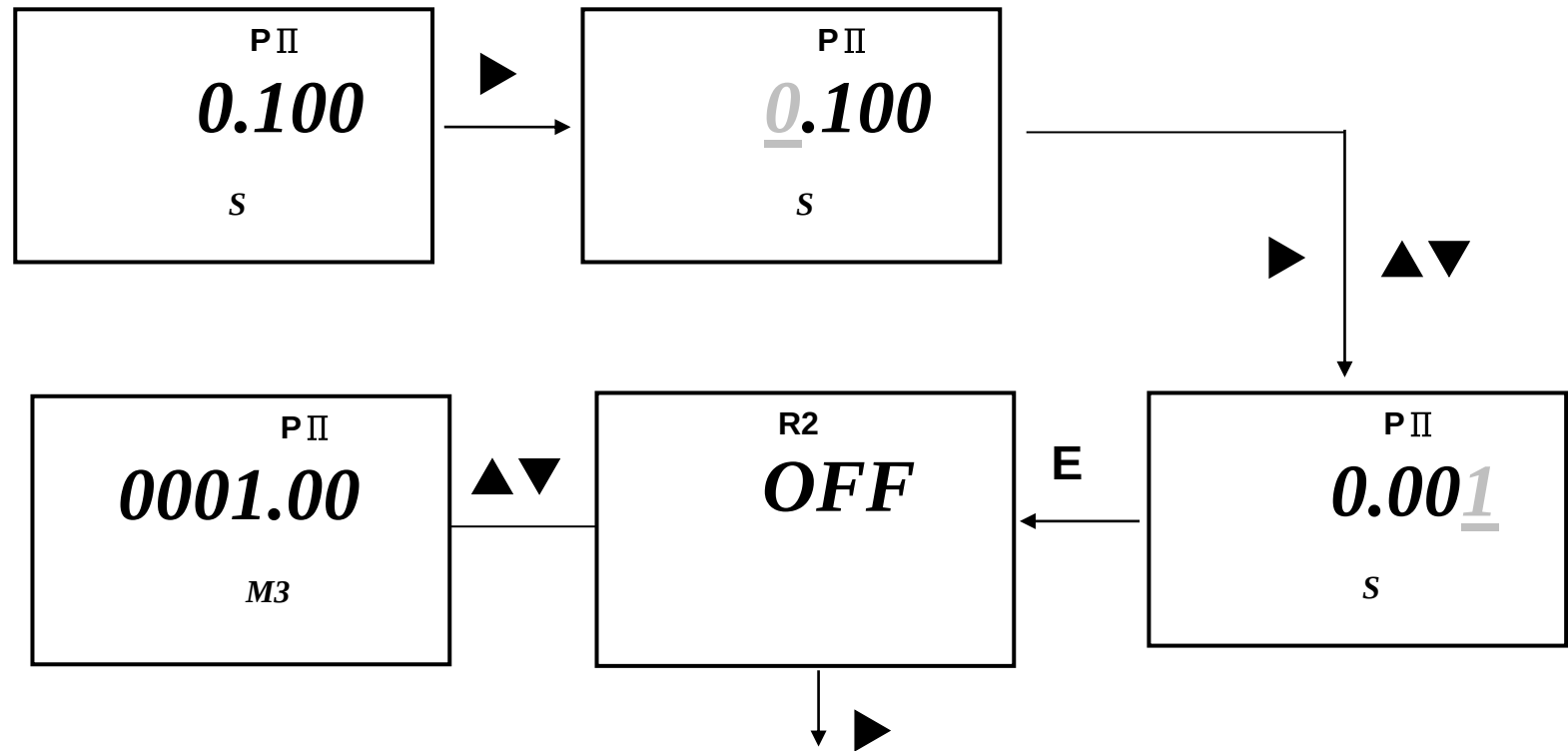
- Compare the cumulant to define the pulse wave output.
- Pulse output value setting, 00.0001 – 999999.
- The unit same as the cumulant.
- Shifted by ►, change the value with ▲▼, press E key to confirm. (go to 3.2.4.3)

3.2.4.3

Output pulse
width setting

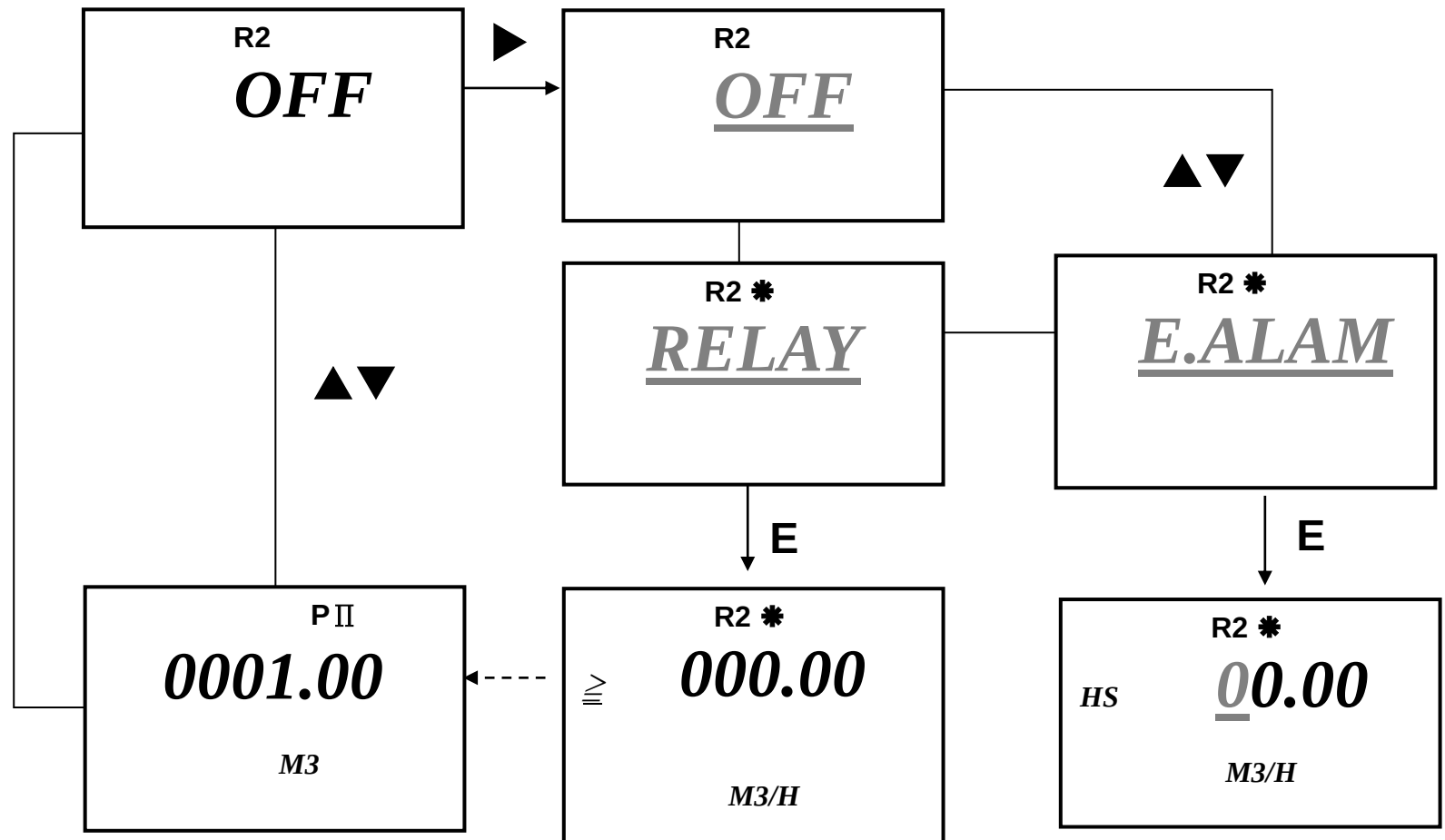
0.001 – 9.999

(Default 100ms)



- The width setting is used for the ability to pair the output receiver unit, but the width setting still needs to consider the corresponding flow value to avoid the output pulse overlap error. Example: If the width is set to 0.1s, the output pulse frequency should be <10Hz (times/second), if the flow rate is 360m³/h (0.1m³/s), the output setting value of each pulse should be >0.01m³.
- Shifted by ►, change value with ▲▼, press E key to confirm. (go to 3.2.4.4)

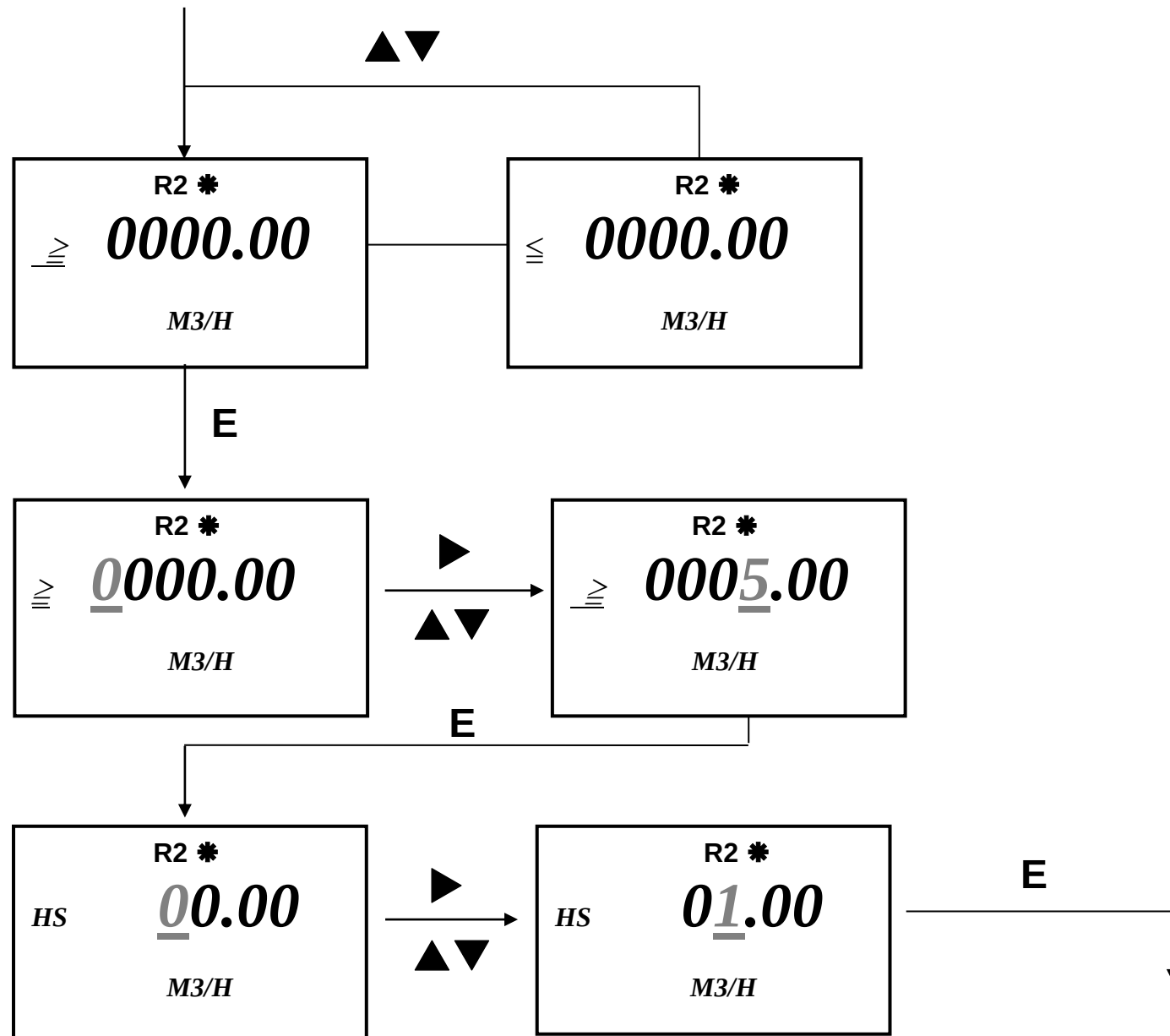
3.2.3.4 R2 Output option selection



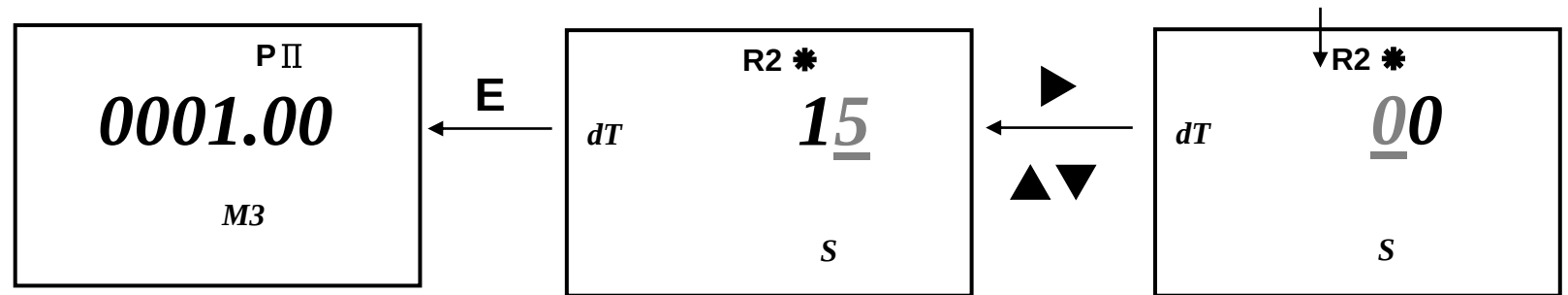
- R2 is reed switch , capacity 24VDC/240VAC @5A.
- If select E.ALAM, when an error message occurs, relay engine to alarm.

- Decide $\leq$
or $\geq$

- Define the hysteresis value

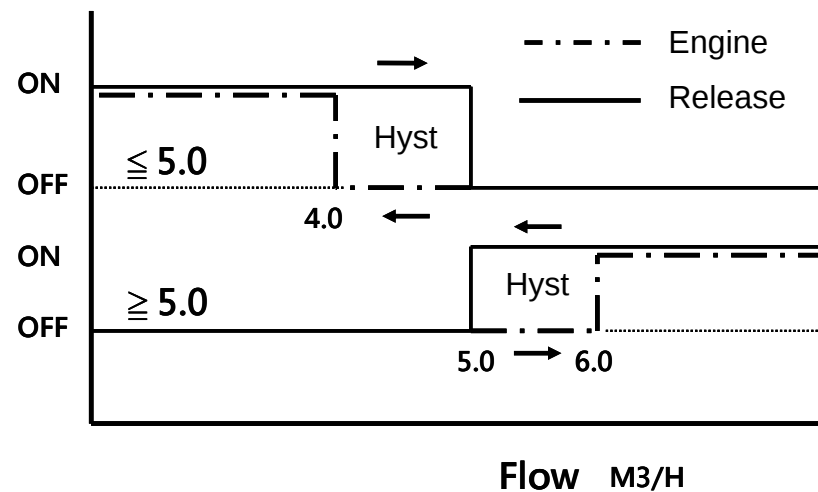


- Define the delay time

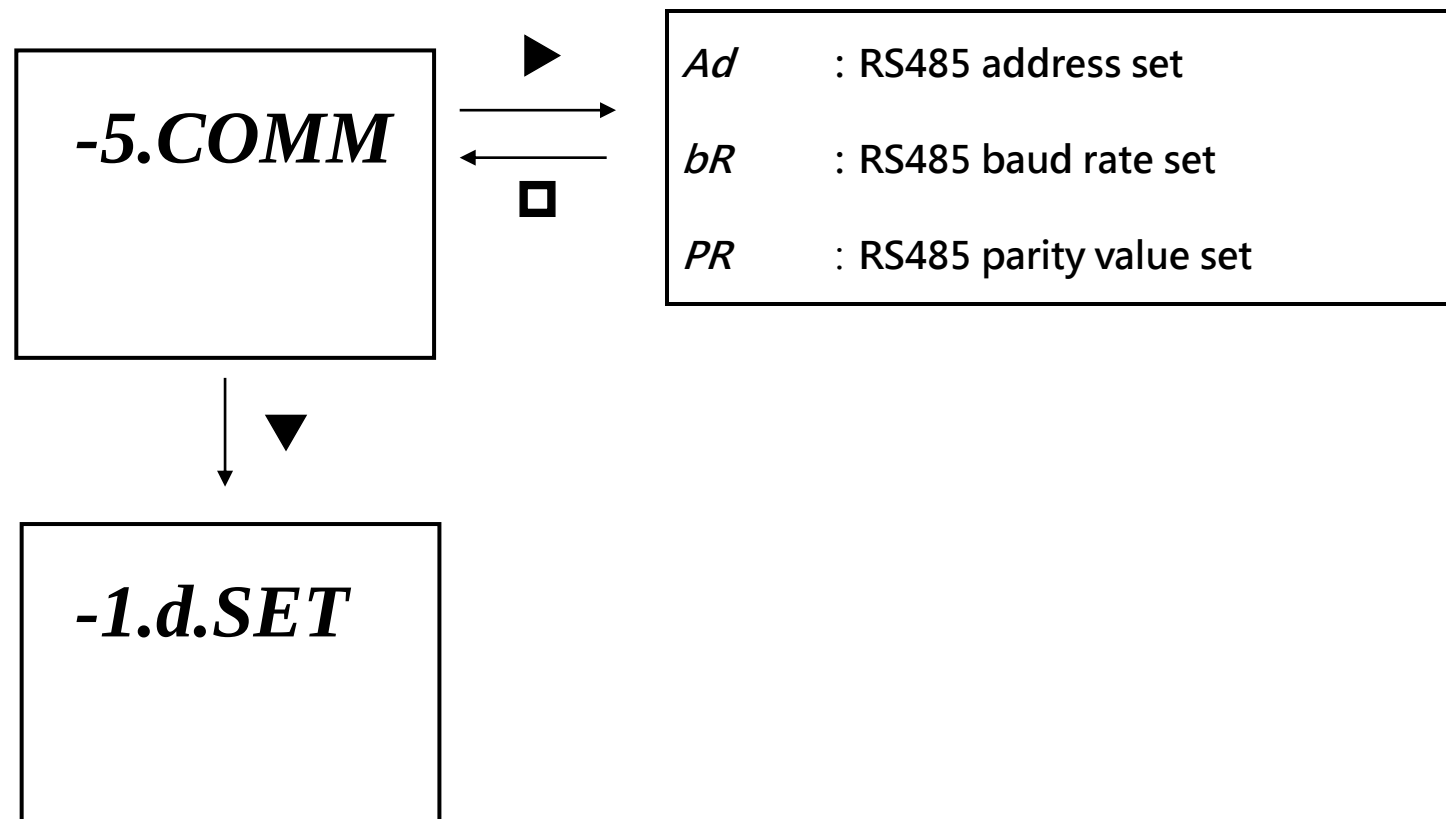


R2 action : Meet the set conditions – engine / close.(NO, normally open)

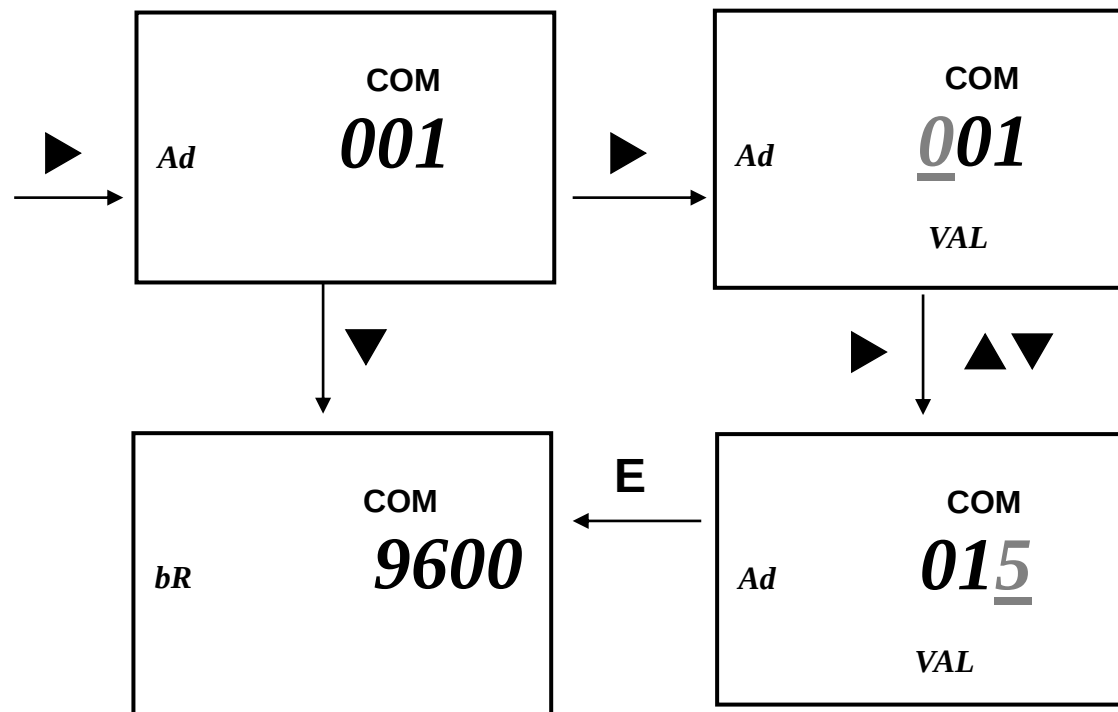
- Shifted by ►, change the value with ▲▼, press E key to confirm. (go back 3.2.3.2)
- Hysteresis value, unit same as flow rate.(00.00 - 99.99)
- Delay time dT, 00–99s, Action time=Meet the condition time + Delay time.



3.2.4 “-5.COMM-” RS485 communication



3.2.4.1 RS485
address set,
001 – 199
(Default : 01)

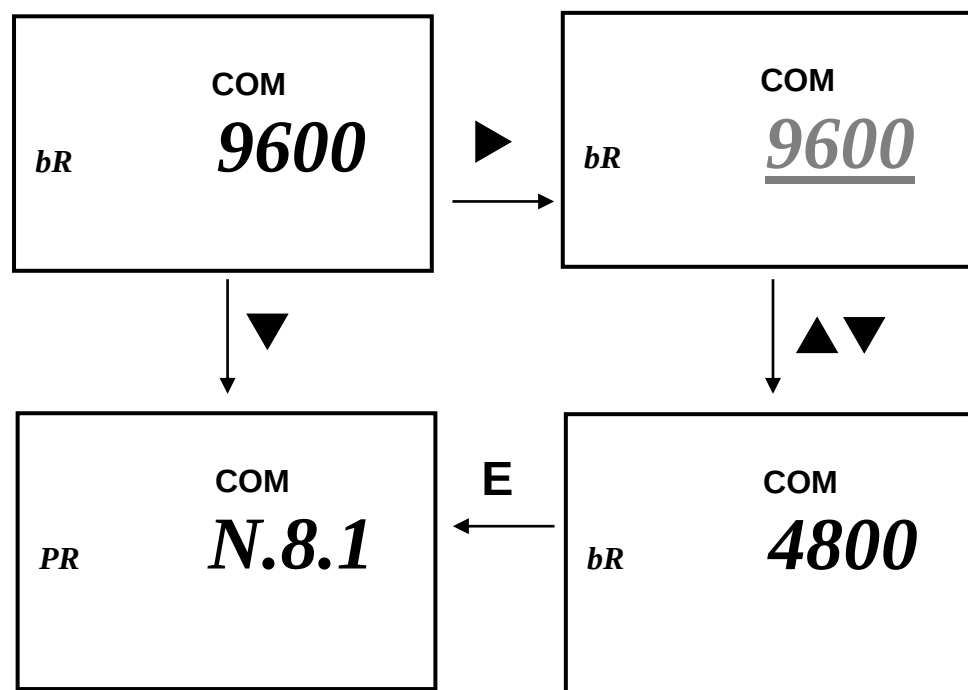


- Shifted by ▶, change the value with ▲▼, press E key to confirm. (go to 3.2.4.2)

3.2.4.2 RS485

Baud rate

(Default : 9600)

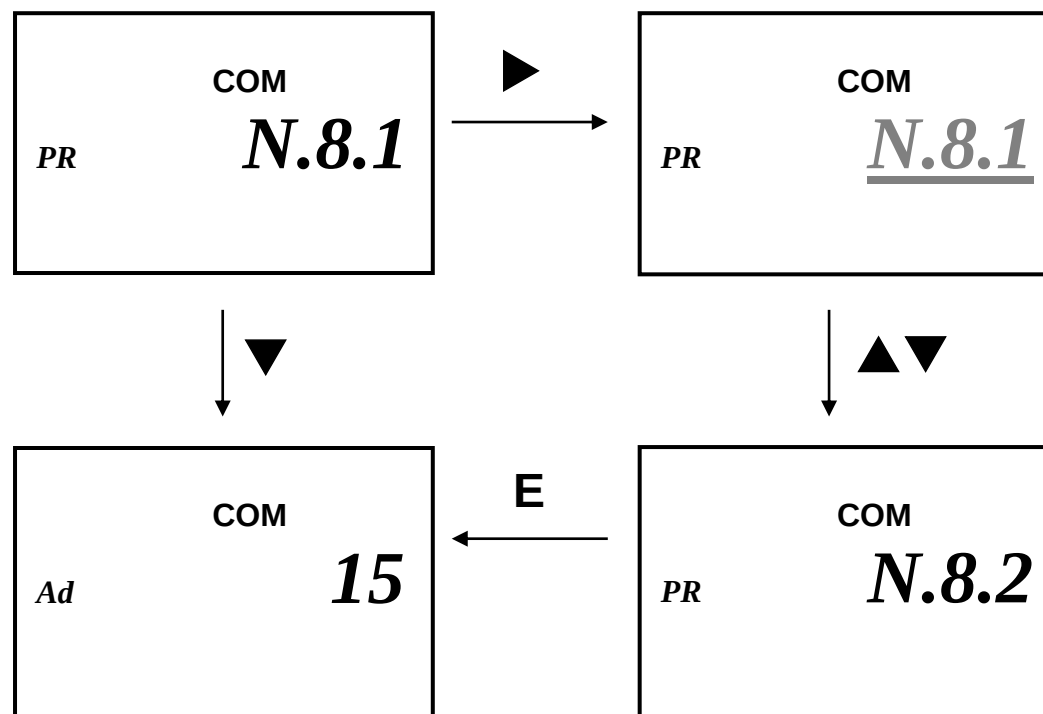


- Select the option with ▲▼, press E key to confirm. (go to 3.2.4.3)
- Baud rate can be selected as 2400 、 4800 、 9600 、 19200.

3.2.4.3 RS485

Parity value set

(Default : n.8.1)



- Select option with ▲▼, press E key to confirm. (go back 3.2.5.1)
- Parity can be selected as N.8.1 、 N.8.2 、 EVN 、 Odd .

3.3 Advanced Layer

- On any screen on the display layer, press **▣▶E** meantime 3 sec. enter the password, go into the advanced layer.
- On any screen on the advanced layer, press **▣E** meantime 3 sec, go back to display layer and save the change.

Below setting are invalid, if there is no purchase.

3.3.1 AO1

4mA / Zero
output trim
(Default : 4.00)



- Use the multi-purpose meter measure the current output; shifted by **▶**, change the value

with▲▼, let same as measurement. Press E key to confirm. (go to 3.3.2)

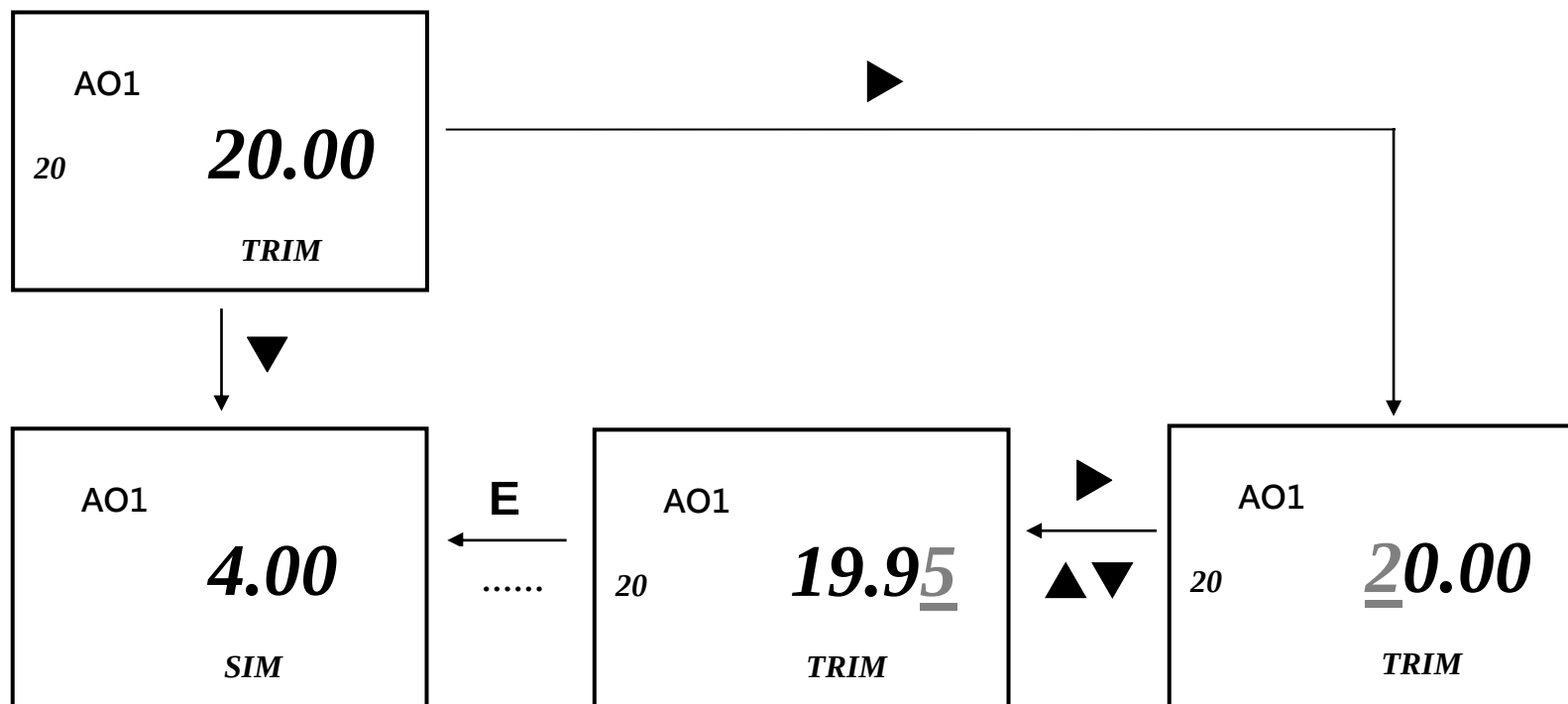
3.3.2 AO1 20

mA / Span

output

trimmed

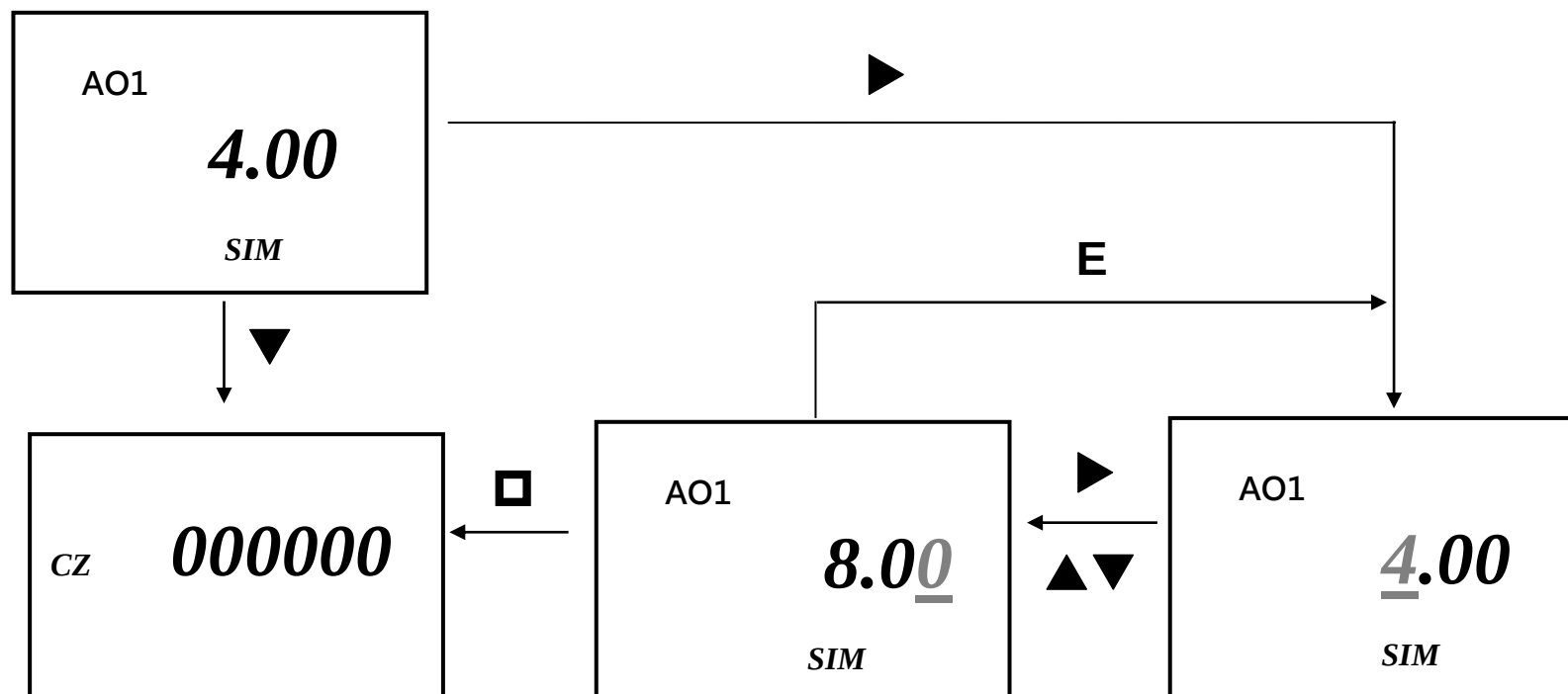
(Default : 20.00)



- Same as 3.3.1 (go to 3.3.3)

3.3.3 & 3.3.4 AO2 ZERO & SPAN trim, same as AO1.

3.3.5 AO1 Simulated output (Default : 4.00)

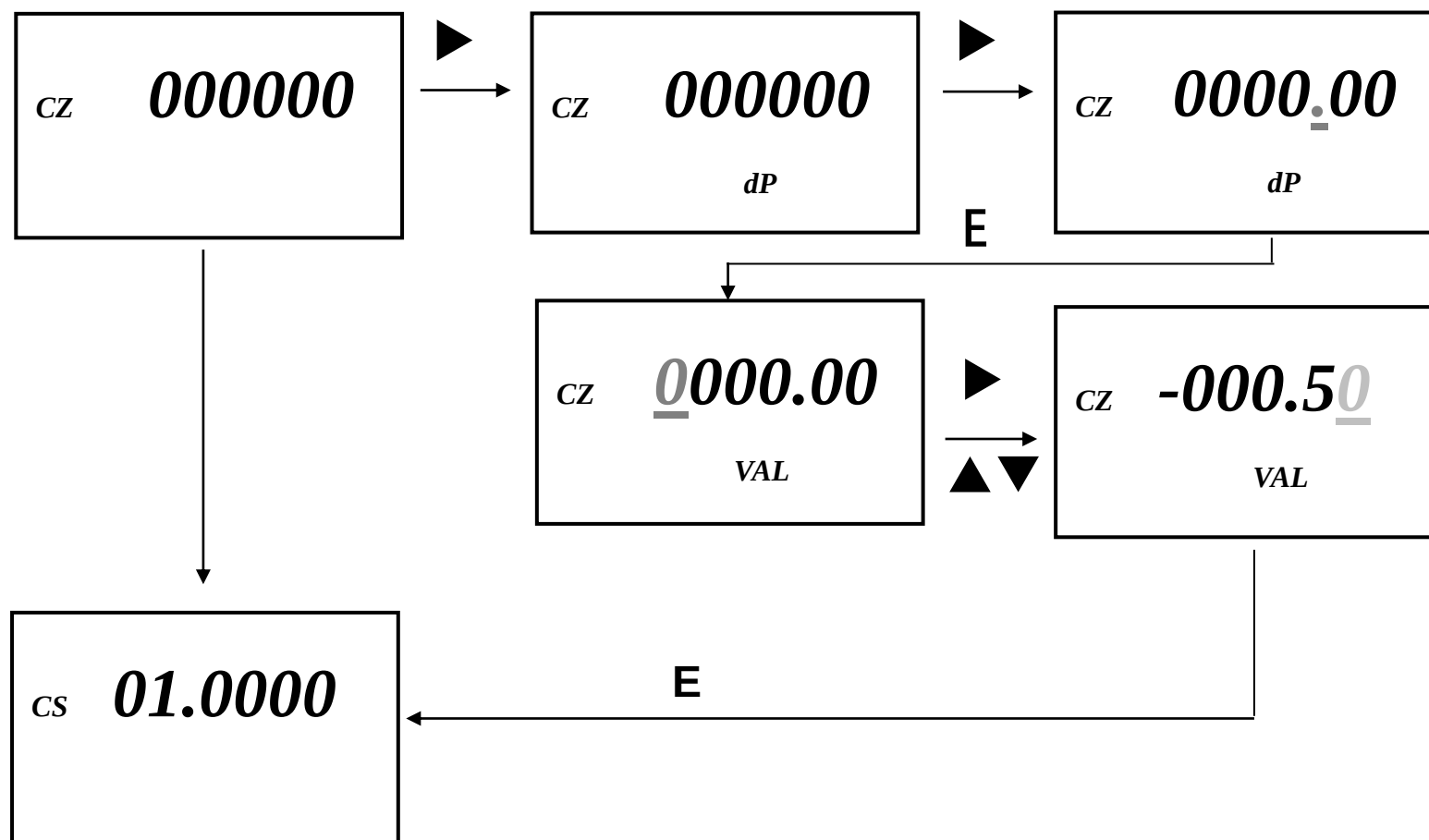


- Current output as the simulated value.

3.3.6 AO2 Simulated output same as AO1.

3.3.7 Zero correction

CZ · -99999 – 999999
(Default : 01.0000)



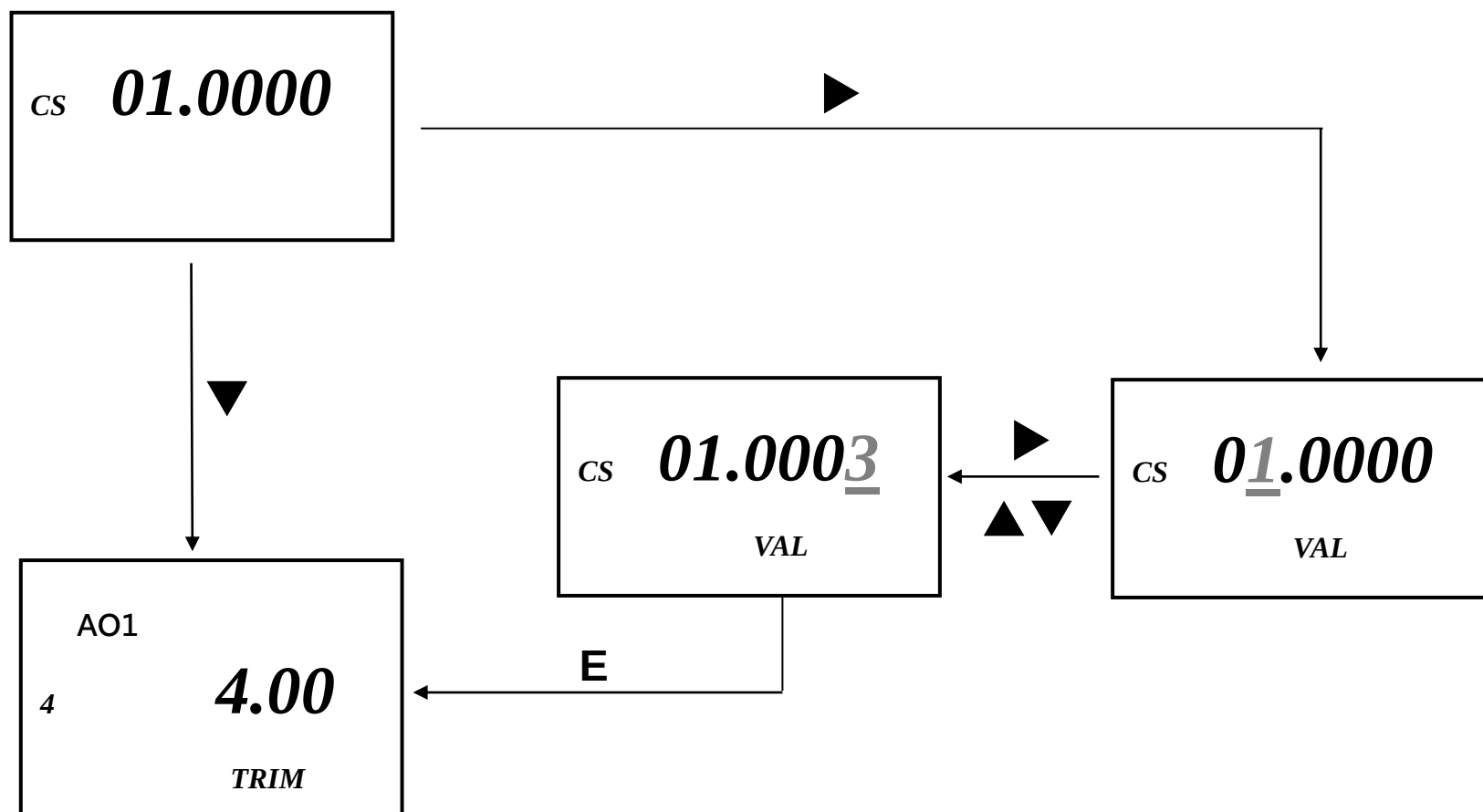
- Defined "Display value at desired 0 + Zero correction value CZ = 0
- Input correction value; shifted decimal places by **►**, change the sign/value with **▲▼**.
- The unit is the same as the instant flow rate.

3.3.8 Span

adjustment

CS · 00.5000 –
01.5000

(Default : 01.0000)



- Defined " Display value at span x Span adjustment CS = Desired span value.
- Input correction value; shifted decimal places by ►, change the value with ▲▼.
- Can simulated the current input by device, modified in advanced.

4. Error message

When an error occurs, the error message code and the error message screen will appear alternately.

Press E key 5sec., error messages can be eliminated

Code	Screen	Cause	Solution
No Display		● Power supply error. ● Hardware failure.	● Check the power supply, check the voltage with an electric meter. ● Contact agent.
ERR 1	OVER Fd	The instantaneous flow rate display exceeds the set value, for example: set to 3 decimal places : 112.345, but the value >999.999	● Check the instantaneous flow rate display value.
ERR 2	OVER P	Output pulse exceed Open Collector (O.C.) setting frequency.	Increase the value of scale. Or decrease the pulse width.
ERR 3	OVERMAX	The value > 20mA value.	Modified 20mA setting value, increase the value.
ERR 7	ROM ERR	EEPROM read / write error, can not work.	● Shut down and restart, check whether the power connection is normal (whether it is loose) ● Again, contact agent.

- Appendix :

RS485 (Modbus RTU Layer Protocol Address Table)			
Modbus	Hex	Mark	Description
40001	0000	T2.A	T2 value, 0000000000000000– 00000002540BE3FF(0000000000 ~ 9999999999)
40002	0001	T2.B	T2 value, 0000000000000000– 00000002540BE3FF(0000000000 ~ 9999999999)
40003	0002	T2.C	T2 value, 0000000000000000– 00000002540BE3FF(0000000000 ~ 9999999999)
40004	0003	T2.D	T2 value, 0000000000000000– 00000002540BE3FF(0000000000 ~ 9999999999)
40005	0004	T1.A	T1 value, 0000000000000000– 00000002540BE3FF(0000000000 ~ 9999999999)
40006	0005	T1.B	T1 value, 0000000000000000– 00000002540BE3FF(0000000000 ~ 9999999999)
40007	0006	T1.C	T1 value, 0000000000000000– 00000002540BE3FF(0000000000 ~ 9999999999)
40008	0007	T1.D	T1 value, 0000000000000000– 00000002540BE3FF(0000000000 ~ 9999999999)
40009	0008	FW.L	F/Lo pos., 00000000 – 000F423F(000000 ~ 999999)
40010	0009	FW.H	F/Hi Pos., 00000000 – 000F423F(000000 ~ 999999)
40011	0010	04.L	4mA setting value/Lo bit, FFFE7961 – 000F423F(-99999 ~ 999999)
40012	0011	04.H	4mA setting value/Hi bit, FFFE7961 – 000F423F(-99999 ~ 999999)
40013	0012	20.L	20mA setting value/Lo bit, FFFE7961 – 000F423F(-99999 ~ 999999)
40014	0013	20.H	20mA setting value/Hi bit, FFFE7961 – 000F423F(-99999 ~ 999999)
40015	0014	CEI	Correction factor /Lo bit, 00000001 – 000F423F(1 ~ 999999)

40016	0015	CF.H	Correction factor /Hi bit, 00000001 – 000F423F(1 ~ 999999)
40017	0016	DS.L	Density factor/Lo bit, 00000001 – 000F423F(1 ~ 999999)
40018	0017	DS,H	Density factor/Hi bit, 00000001 – 000F423F(1 ~ 999999)
40019	0018	AG	Average rate, 0000 – 0063(0 ~ 99)
40020	0019	LC	Low-cut value, 0000 – 270F(0 ~ 9999)
40021	0020	RT	Square root, 0000 – 0001(0 ~ 1); 0 : OFF, 1 : ON
40030	001D	MAK	Corresponding value decimal place, 0000 – 0004(0 ~ 4) ; 0 : 0, 1 : 1, 2 : 2, 3 : 3, 4 : 4 place
40031	001E	LCD	Low cut value decimal place, 0000 – 0003(0 ~ 3) ; 0 : 0, 1 : 1, 2 : 2, 3 : 3 place
40032	001F	PDP	Scaled pulse value decimal place, 0000 – 0004(0 ~ 4) ; 0 : 0, 1 : 1, 2 : 2, 3 : 3, 4 : 4 place
40033	0020	DPF	Flow rate decimal point, 0000 – 0003(0~3) ; 0 : 0 decimal, 1 : 1 decimal, 2 : 2 decimal, 3 : 3 decimal
40034	0021	UTF	Flow rate unit, 0000-0010(0~10) ; 0 : L, 1 : M3, 2 : ML, 3 : GAL, 4 : Ft3, 5 : NL, 6: NM3, 7 : SFt3, 8 : KG, 9 : LB, 10 : TON
40035	0022	TMF	Flow rate /time, 0000-0003(0~3) ; 0 : S, 1 : M, 2 : H, 3 : d
40036	0023	DPT	Total decimal point, 0000 – 0003(0~3); 0:0 decimal, 1:1 decimal, 2:2 decimal, 3:3 decimal
40037	0024	UTT	Total unit, 0000-0010(0~10) ; 0 : L, 1 : M3, 2 : ML, 3 : GAL, 4 : Ft3, 5 : NL, 6: NM3, 7 : SFt3, 8 : KG, 9 : LB, 10 : TON
40040	0027	A1.04.L	AO1/4mA value/Lo bit, FFFE7961 – 000F423F(-99999 ~ 999999)
40041	0028	A1.04.H	AO1/4mA value/Hi bit, FFFE7961 – 000F423F(-99999 ~ 999999)
40042	0029	A1.20.L	AO1/20mA value/Lo bit, FFFE7961 – 000F423F(-99999 ~ 999999)

40043	002A	A1.20.H	AO1/20mA value/Hi bit, FFFE7961 – 000F423F(-99999 ~ 999999)
40044	002B	A2.04.L	AO2/4mA value/Lo bit, FFFE7961 – 000F423F(-99999 ~ 999999)
40045	002C	A2.04.H	AO2/4mA value/Hi bit, FFFE7961 – 000F423F(-99999 ~ 999999)
40046	002D	A2.20.L	AO2/20mA value/Lo bit, FFFE7961 – 000F423F(-99999 ~ 999999)
40047	002E	A2.20.H	AO2/20mA value/Hi bit, FFFE7961 – 000F423F(-99999 ~ 999999)
40050	0031	R1V	RELAY 1 condition, 0000-0001(0 ~ 1), 0 : OFF, 1 : PULSE
40051	0032	R2V	RELAY 2 condition, 0000-0002(0 ~ 2), 0 : OFF, 1 : RELAY, 2 : E-ALAM
40052	0033	R1_PL	Scale pulse value/Lo pos., 00000000 – 000F423F(0 ~ 999999)
40053	0034	R1_PH	Scale pulse value/Hi pos., 00000000 – 000F423F(0 ~ 999999)
40054	0035	R1_PU	Scale pulse unit, 0000-0001(0~1), 0 : L, 1 : M3
40055	0036	R2_FW.L	RELAY 2 flow alarm value/Lo pos., 00000000 – 000F423F(0 ~ 999999)
40056	0037	R2_FW.H	RELAY 2 flow alarm value/Hi pos., 00000000 – 000F423F(0 ~ 999999)
40057	0038	R2_HS	RELAY 2 flow alarm hysis. value, 0000 – 270F(0 ~9999)
40058	0039	R2T	RELAY 2 delay time, 0000 – 0063(0 ~ 99)
40070	0045	ADD	RS485 address, 0001 – 00C7(1 ~ 199)
40071	0046	BRD	RS485 Baud rate, 0000-0003(0 ~ 3), 0 : 2400, 1 : 4800, 2 : 9600, 3 : 12800
40072	0047	PAR	RS485 Parity, 0000-0003(0 ~ 3), 0 : n.8.1, 1 : n.8.2 2 : EVN, 3 : ODD

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