



HD-FM25-P

Flow Meter Manual

CE

201001.V01

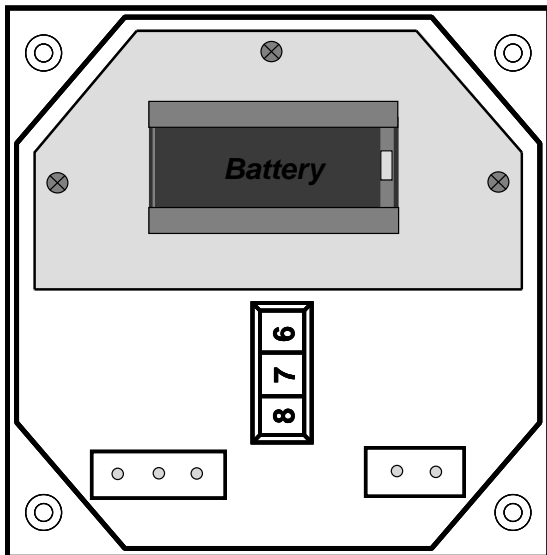
1. General Information :

- For safety, please do not change the construction or over load.
- Please do not use any cleanser to clean Front Housing.

2. Specification

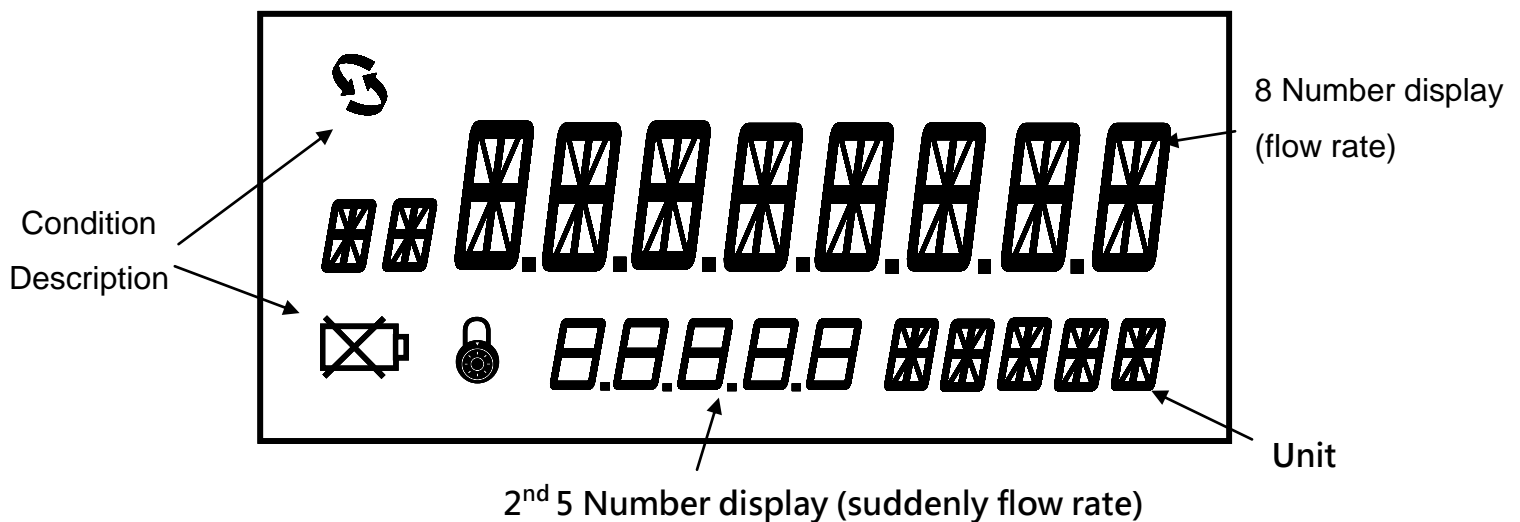
- a) Temperature limited $-10^{\circ}\text{C}\sim 65^{\circ}\text{C}$.
- b) Input 5V DC battery.
- c) CE certification, IEC61000.
- d) Material :
 - Body-PC
 - Front housing-ABS
 - Back plate-ABS
- e) Dimension : 95Lx95Wx74D mm
- f) Protect level : IP65

2.3 Construction :






Power input	1	5V DC+ in
	2	GND
Sensor input (frequency input)	6	COM
	7	Signal input S+in
	8	Outer power supply V DC+





2.5 Information



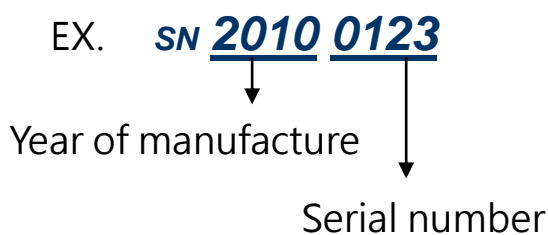
Condition description

-  : Operating
- T1** : Total value
-  : Low Battery, please replace.
-  : Locked

3. Switch Function :

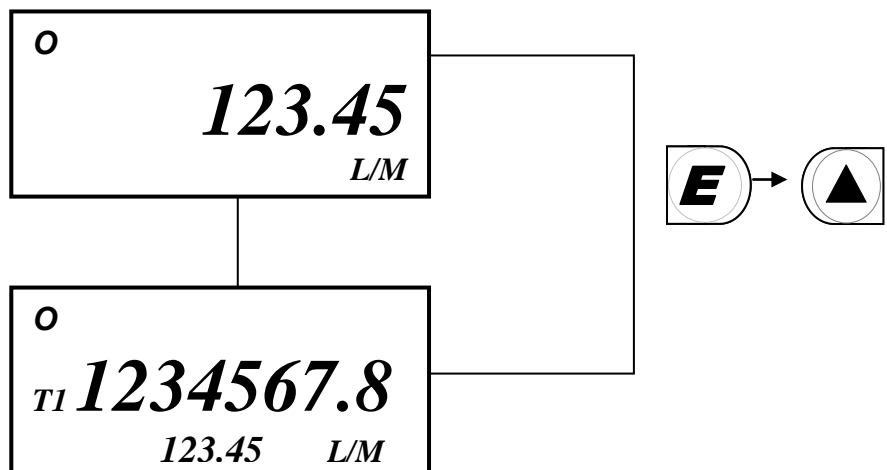
Push button 	Select value.
Push button 	Move 1 position to the right and select desired value.
Push button 	Confirmation.
Push button 	Push 2 buttons in 3 second, enter/ escape setting mode.

Turn on the flow meter will see general display and serial number.



3.1 Display Mode :


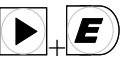
Flow rate



Flow rate and total value (T1) display

NOTE : flow rate can round off to the 2nd decimal place

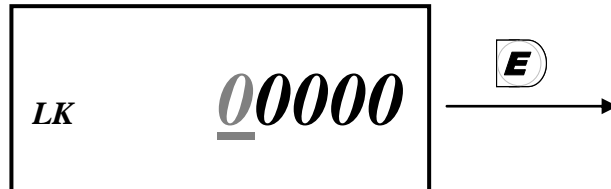
3.2 Setting Mode :

- In display mode, push  in 3 second will into setting mode.
- In setting mode, push  in 3 second and back to display mode.

- In setting mode, if no dial any key in 2 minutes, it will back to display mode.

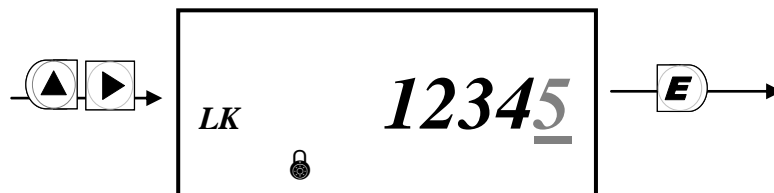
Code setting

Into setting mode will see the code. The password is 00000, if no setting.



Please enter your code first if setting (ex.12345) and confirm.

It will back to setting mode in 10 minutes.

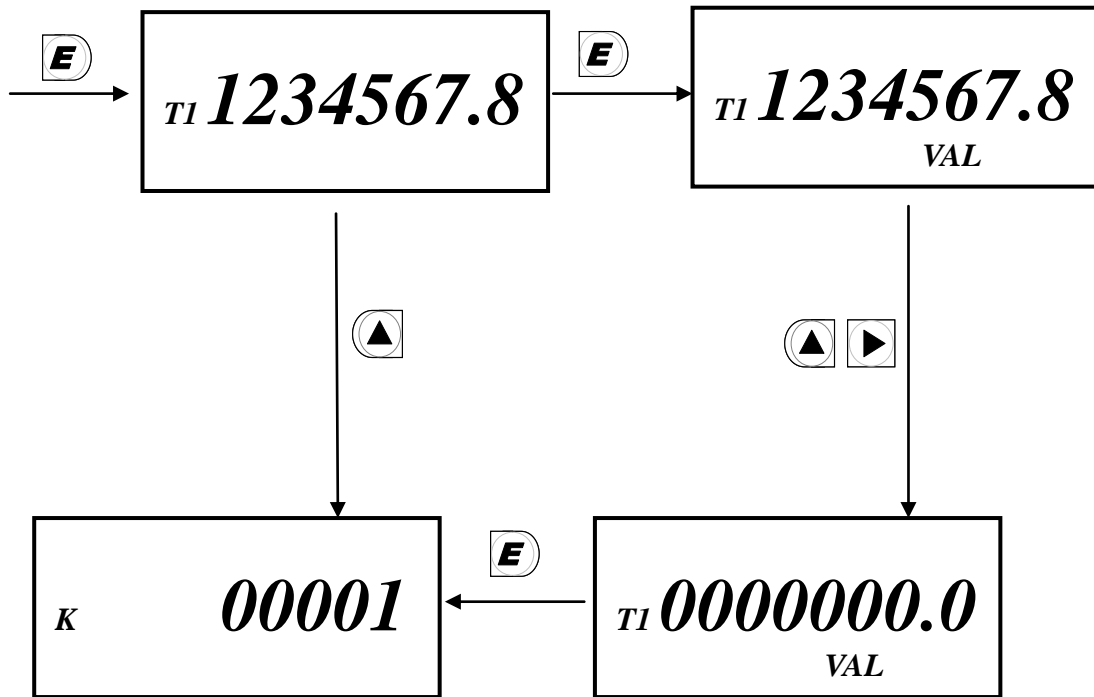


Master code

If forgot password, the master code is 05214 for unlock.

3.2.1 T1 Total value (zero) setting

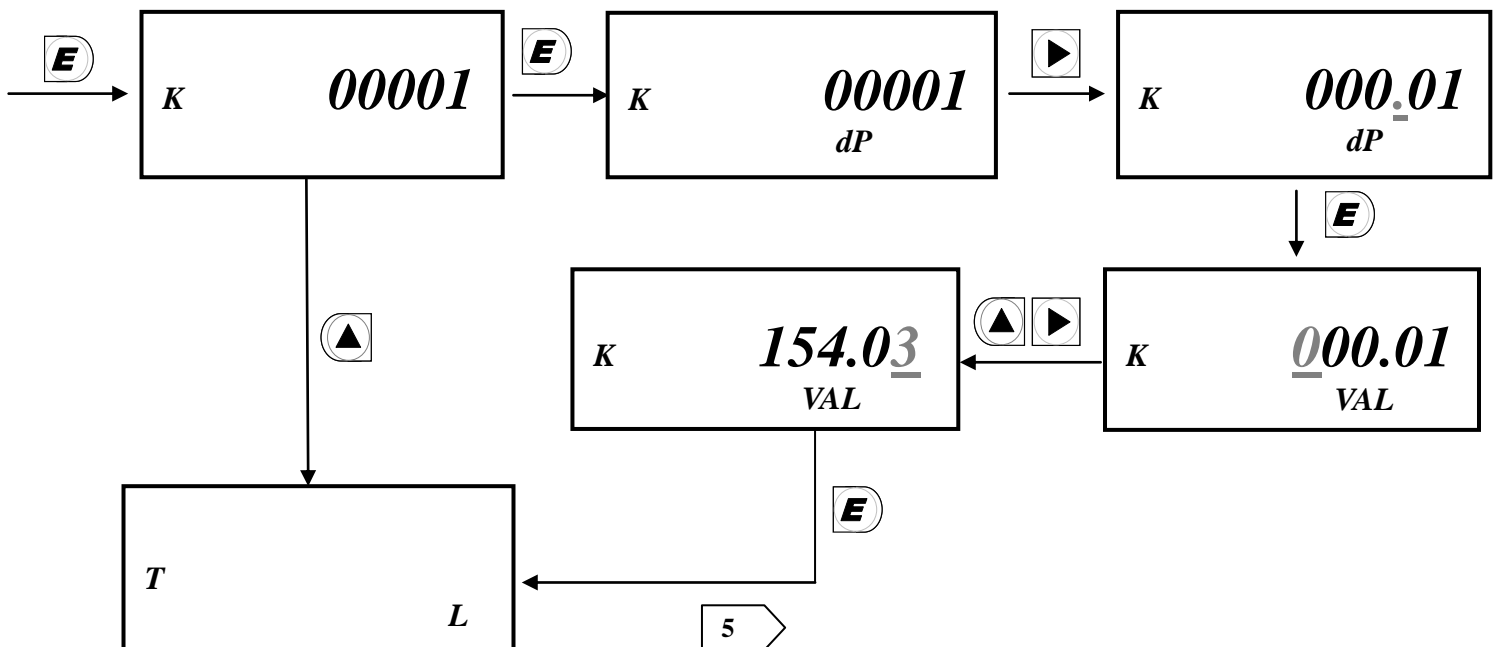
- Push to move to next position, push and select value, push for confirm.
(into 3.2.2)



3.2.2 K parametric or ratio parametric setting

0.0001 – 99999 (original : 00001)

- Push move to decimal place, and push for confirmed.
- Enter value, push to move 1 position, push to select value, push for confirmed.(into 3.2.3)



-K parametric list-

"T" TYPE SET

PIPE SIZE	K parameter		
	PVC*	PP	SUS
1/2"	215.65	194.33	-
3/4"	121.30	115.22	-
1"	89.12	87.01	84.46
1-1/4"	57.04	64.13	48.82
1-1/2"	41.56	40.80	35.8

* NAN YA PVC/B pipe are suitable in this parametric.

"SADDLE" TYPE SET-Plastic pipe

PIPE SIZE	K parameter		
	PVC SCH80	NAN YA PVC	PP/PN10
2"	31.90	28.96	28.51
2-1/2"	21.72	16.37	19.49
3"	13.02	11.32	12.72
4"	5.53	5.11	6.31
6"	2.29	2.20	3.30
8"	1.24	1.22	1.71

Plastic welded short pipe-PVC Pipe

PIPE SIZE	K parameter		
	PVC SCH80	NAN YA PVC	PP/PN10
2"	19.83	18.00	17.72
2-1/2"	13.73	10.35	12.32
3"	9.19	8.00	8.98
4"	4.46	4.13	5.10
5"	2.79	2.62	3.12
6"	1.88	1.80	2.71
8"	1.05	1.03	1.45
10"	0.57	0.64	0.88
12"	0.40	0.44	0.55
14"	0.38	0.37	0.49
16"	0.28	0.29	0.38





Metal welded short pipe-metal pipe (Stainless steel, carbon steel, galvanized steel pipe)

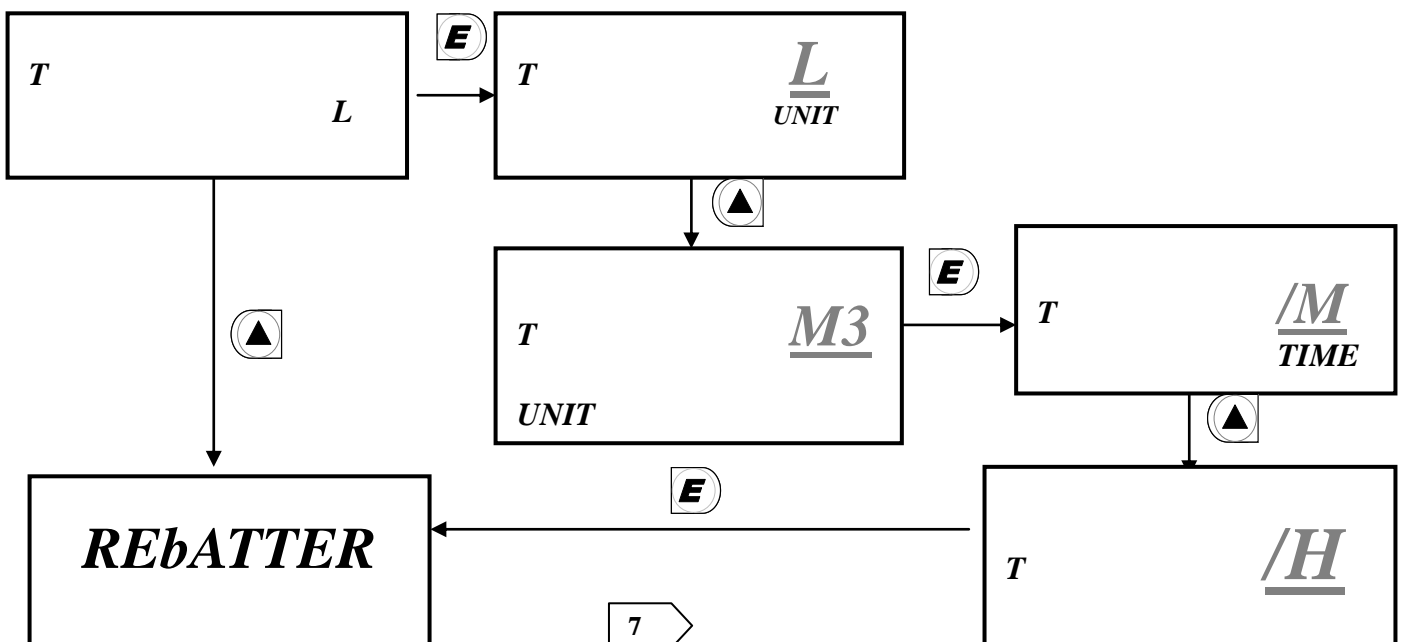
PIPE SIZE	K parameter	
	SCH 40S	SCH 80S
2"	17.32	19.38
2-1/2"	12.05	13.73
3"	8.15	9.19
4"	4.00	4.46
5"	2.52	2.79
6"	1.68	1.88
8"	0.95	1.05
10"	0.57	0.63
12"	0.40	0.44
14"	0.38	0.42
16"	0.29	0.31

-K formula-

$$K \text{ ideal value} = \frac{K \text{ tested value (LED display)} \times Q \text{ total capacity after tested}}{Q \text{ expected value}}$$

3.2.3 Unit Setting (original L, /M)

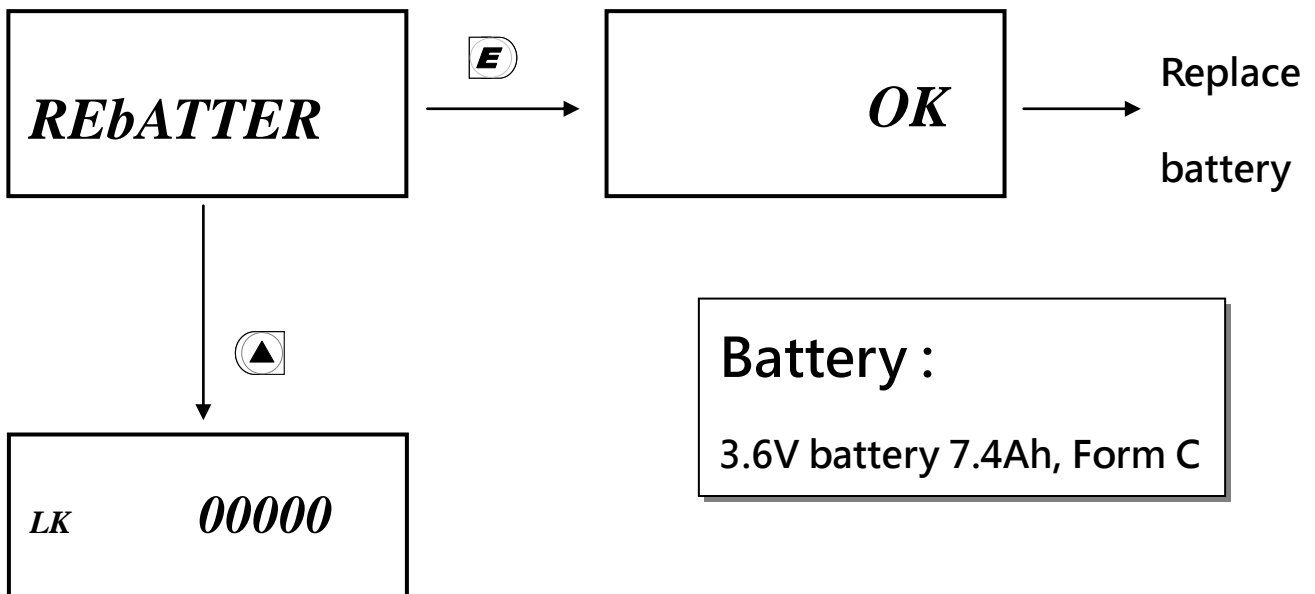
- Push  to select capacity and weight unit, and push  for confirm.
- Capacity / weight unit list will be L, M3, ML, GAL, KG, Lb, and TON.
- Push  to select what you request, push  for confirmed. (into 3.2.4)
- Time unit list will be /S, /M, /H, and /d.








3.2.4 Replace battery

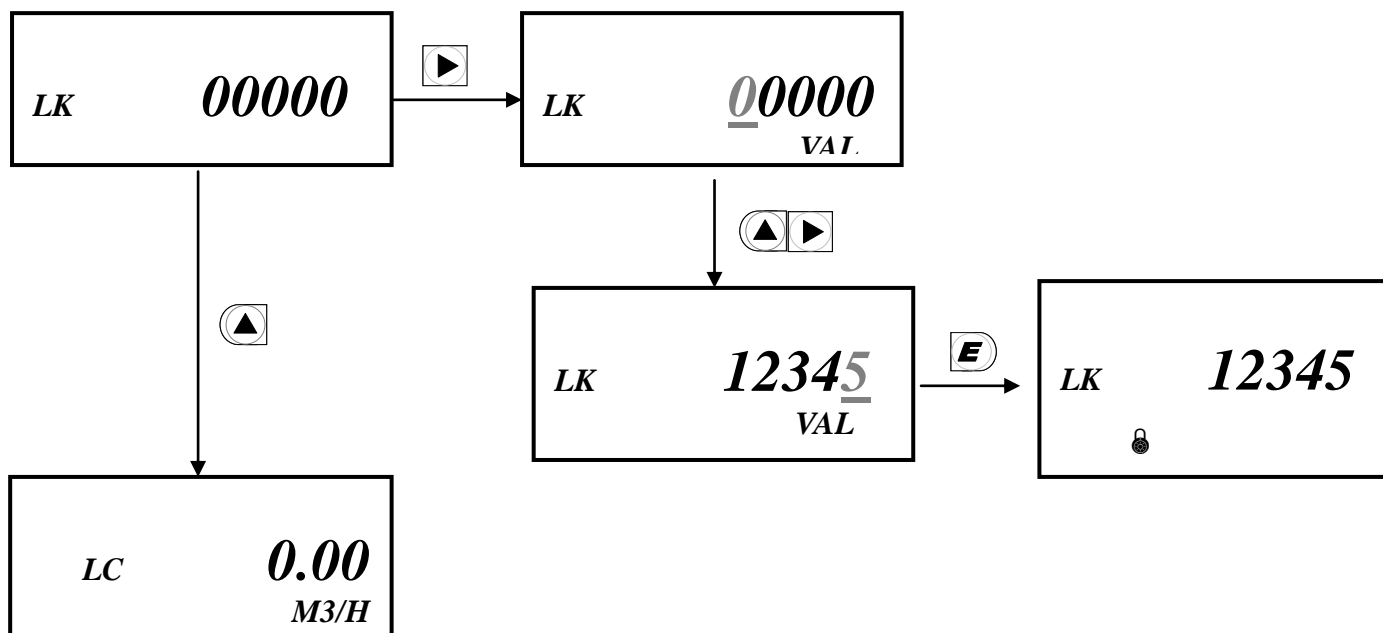
- Please replace the battery when display " REbATTER" ;
Before replace, please save the parametric value and total capacity.(into 3.2.5)
- Please ignore the item in input 5VDC battery. If operating input DC voltage in this part, it will be locked automatically. Please remove the power and restart.

* DO NOT operate 2 kind of input power in the same time, it will damage flow meter.



3.2.5 Setting mod -lock "LK" (original : 00000)

- Push  to move 1 position, push  to select value, push  for confirmation ; it will display  sign, and push  for confirmation. (back to 3.2.1) .



Setting list

S/N : _____

Item	Setting value	Date	
		/	/
K			
LK			
T			

NOTE :



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