FIDUITEBII ΤM

1、 Digital paddlewheel meters

KF510 series is as a speed flow metering, used to measure the full closure of pipeline and continuous flow of volume liquid.it is good for low viscosity liquids that can with high accuracy of instant and totalizer flow.

Features:

High accuracy digital paddlewheel technology

Rate and total flow display

Easy to operations and read, eight large digital LCD display

Install quickly on existing pipe

No pressure drop

Corrosion resistant PVDF sensor

Minimal maintenance required

Long-life lithium battery

Stopped-flow instructions

Diversification installation

Totalizer :can be reset and the

permanent preservation

User set security password

Paddlewheel flow sensor

Item	paddlewheel flow sensor
Velocity range	0.3~6m/s
Diamotor	DN10-DN50 (with PVDF triplet)
Diameter	DN65-500(insert type)
Wetted material	Sensor:PVDF
	Impeller:PVDF
	Shaft lever:ceramics
Seal ring	Viton,EPDM
Working temperature	PVDF: -20~ +140°C
Working pressure	1.0MPa , 0.8MPa

Technical parameter

ltem	Flow Convertor
Model	KF510
Accuracy	±1%, ±1.5%
Repeatability	±0.5%
Temperature	-20~ +65°C
External dimension	100x100mm
Installation method	Panel mount、compact type(DN10~DN50)
Power supply	DC24V, battery power supply, AC220V
Output signal	4~20mA, Passive pulse
Communication	RS485
Alarm	Upper limit,lower limit,totalizer
Protection class	IP65
Consumption	2W

2、Range

Technical parameter

DN(mm)	Range (m³/h)	Male	Press (MPa)	temp. (℃)	A mm	B mm		
10	0.1~1.8	G3/8″			152	121		
15	0.2~4	G1/2″	1.0		152	130		
20	0.3~6	G3/4″		<80°C	158	142		
25	0.5~12	G1″				-00 0	158	141
40	1.5~24	G1½″	0.8		168	175		
50	2~40	G2″			184	175		



G3/4"



G1½"



Insert type technical parameter

DN(mm)	Range (m3/h)	Press (MPa)	temp. (℃)
50	3~30		
63	5~50		
75	8~80		
90	10~100		-0000
110	15~150	0.8	≤80°C
160	35~350		
200	50~500		
250	80~800		
300	100~1000		

Application

- Water treatment systems
- Process treatment/ distribution
- Irrigation system
- Filtration system
- Swimming pool and hot spring
- Groundwater packing
- Counter-infiltration
- Process flow monitor
- Ultra-pure water delivery
- Desalination and recycle
- Process cooling water

93 x 93mm

3、External dimension







68mm

5、 installation requirements

Minimum straight pipe length requirements

The digital paddlewheel meters' accuracy is affected by disturbances such as pumps,elbows,tees,valves,etc.in the flow stream,install the meter in a straight run of pipe as far as possible from any disturbances.the distance required for accuracy will depend on the type of disturbance.







Mounting location

The digital paddlewheel meters is designed to withstand outdoor conditions.a cool,dry location,where the unit can be easilyl serviced is recommended.the meter can be mounted on horizontal or vertical runs of pipe.mounting at the vertical(twelve o'clock)position on horizontal pipe is recommended.mounting anywhere around the diameter of vertical pipe is acceptable,however,the pipe must be completely full of water at all times.back pressure is essential on downward flows.see the minimum straight length of pipe requirement chart above.the meter can accurately measure flow from either direction.

45°acceptable

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Terminal Description



1. Function



Item	Flag	Function Description	Remark
1	4-20mA +	4-20mA Output	
2	4-20mA -	4-20mA Output	Resistance ≤750Ω
3	0~2KHz+	Frequency or pulse output	Passive output mode
4	0~2KHz-	Frequency or pulse output	Output Amplitude 24V ; Load current ≤50mA
5	RS485date+	RS485 Communication	RS485 communication function (n just
6	RS485date -	RS485 Communication	for transmitter has this function
7	Vo+	Hall parts supply	When the signal sensing element is a
8	SIN+	signal +	coil,connect signal + and signal - (hop cap connect AMP and ON) when signal
9	SIN-	signal -	sensing element is Hall Parts,hop cap connect AMP and OFF
10	(12-24V) +	24VDC Power, positive terminal	Power supply
11	(12-24V) -	24VDC Power, negative terminal	Range 12-24 VDC
12	K1	Switch 1	You can set upper and lower limits or
13	K2	Switch 2	quantitative output switch,

2. DIP switches (factory set, can not be changed)

No.	Switch	Description	Remark
1	lon 20ff	Sensing element for the Hall swite	ch 1234
2	1off 2on	Sensing element is a coil	1234
3	4on	LCD backlight lights	
4	4off	LCD backlight off	1234



2.) Electric current output



The converter current output electrical isolation has been achieved. Output to take an active approach. Current output mode 4-20mA, 20mA current output value from the corresponding traffic parameter item "scale flow of value" is determined (reference to factory nameplate on the instrument measuring range a value). The maximum current output load resistance of 750Q, the load resistance includes the cables used to connect the resistance. Current output cable is recommended RWP2x16/015 PVC insulated sheathed cable shield. 2.



3.) Pulse, frequency output

The Transmitter frequency, pulse output has been achieved electrical isolation, the output for the active mode (see above chart). Transmitter frequency, pulse output with transistor output mode. Maximum pulse output frequency 5KHZ, the output pulse amplitude of 24V. Active mode the maximum load current 50mA, passive mode the maximum load current 0.2A. As the frequency and pulse output terminals are shared, it is not to choice two output modes. Users can set the parameter "frequency output" to select the work. Frequency output upper limit corresponding to the measured flow value by the parameter item "scale flow value" decision (reference instruments to measure the scope of a factory nameplate values). Pulse output equivalent by the parameter 'pulse equivalent L / P "decision.

4.) Function of communication

Transmitter communication with RS485, MODBUSASC, MODBUSRTU communications capabilities (requires a user specified when ordering). Available through the "485 output communication protocol" parameter is set to specify. Instrument Communication Interface specific technical note on "protocol."

7.Operations

- 1. Panel construction and key definition
- 1.) KF510 Series



2.) Function instructions

set parameters confirmation and set key of exit sub-menu (🗨 key)
enter sub-menu and cancel set key(▶ key)
set item "DOWN" and data variables "degression" key(👿 key)
set item"MOVE" and data variables"increase"key (📐 key)

Instructions:

Instrument Display Interface

1. The first line shows an instantaneous flow rate, flow rate display units can be in the 'flow unit' function key to choose;

- 2. The second line shows the cumulative total amount and cumulative units;
- 3. The third line shows the percentage of traffic



2. menu construction

Mode of Measuree – press ►	Configuration Menu press	→ Parameter item Press ►	Secondary Parameter item
<u>.</u>		1.1 PV Units	L/S,L/m,L/h,m3/S,m3/m,m3/h,G/S,G/m,G/h
		1.2 PV Decimal	
	1. BASIC	1.3 Total Units	L,m3,G
		1.4 Total Decimal	
		1.5 Damping(s) (0.1~99.9)	
		2.1 New Password	
		2.2 Language	
		2.2 Signal	2.2.1 Qmax(m3/h) 2.2.2 Low Cutoff%
	2. SYSTEM	2.3 Pulse Output	2.3.1 Freq Direct 2.3.2 Freq Max(Hz) 2.3.3 Liter/Pulse 2.3.4 Pulse Width(ms) 2.3.5 Pulse Level
		2.4 RS485 Output	2.4.1 RS485 Ptotocol 2.4.2 Baudrate 2.4.3 Data Bit 2.4.4 Parity 2.4.5 Stop Bit 2.4.6 Dev Address
		2.5 Total Set	2.5.1 Clear Total 2.5.2 FWD preset(m3)
		2.6 Load Settings	
		3.1 4mA Trim	
	3. CALIBRATION	3.2 20mA Trim	
	4. TEST.	4.1 Loop Test 4.2 Pulse Test	
Mode of Measuree Press	Configuration Menu press	← Parameter item Press ◀ ←	Secondary — Parameter item Press

3. detail parameter instructions

parameter item	parameter setting range	instructions
flow unit	L/S, L/m, L/h, m3/S, m3/m, m3/h, G/S, G/m, G/h	S=second,M=minute, H=hour,L=liter, M3=cubic meter,G=gallon
totalizer unit	L, m3,G	
flow display resolution	1, 2, 3	set the instantaneous flow of decimal places displayed
totalizer display resolution	1, 2, 3	set the totalizer flow of decimal places displayed
language	chinese, english	
scale flow	0.0001-99999999	unit: m3/h
termination of small flow	0.0-9.9	this parameter can move small flow display,the percentage for the full range
upper frequency limit	100.0-5000.0Hz	maximum frequency output,it's effectual when pulse equivalent is ZERO
pulse equivalent	larger than system's minimum is ok	one pulse on behalf of how many liters
pulse width	0.0-1000.0ms	do not need under normal condition
pulse level	low effective ,high effective	clear total accumulation
clear accumulation	No, Yes	
preset positive accumulation		If replace instrument,can input previous totalizer flow,continue to accumulation
4mA calibration	3.000-5.000	calibrate output signal without flow.
20mA calibration	19.000-21.000	calibrate output signal of full range

8.detail instructions

1.) Unit of flow

Adjust instant flow's unit, the setting rang L/S, L/min, L/h, m3/S, m3/min, m3/h, G/S, G/min, G/h $_{\circ}$

Steps	Operation instructions	Interface show	
1	In the measurement mode, press " F into configuration menu	$\begin{array}{ccc} \rightarrow & \text{Basic} & \rightarrow \\ & \text{System} & \rightarrow \\ & \text{Calibration} & \rightarrow \\ & \text{Test} & \rightarrow \end{array}$	
2	Press" > "into Basic menu	 → PV Units PV Decimal Total Units ↓ Total Decimal 	
3	Press" > "into PV Units	PV Units L/h L/h	
4	Prees" ▼ " or " ▲ "set the Unit of flow	PV Units L/h m ³ /h	current value Modify value
5	Press " ◀ "quit setup menu ,LCD show confirm menu	PV Units L/h ← ENT ESC → m3/h	_
6	Press" 🗲 "to confirm the change, Press" ▶ "to give up modify	 → PV Units PV Decimal Total Units ↓ Total Decimal 	_
7	Press" ("two times back to mesuremer	nt,also you can continue other operat	ion

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2.)Instantaneous flow Resolution

Adjust the instantaneous flow of small points indicate the medium, set the range of 1-3

Steps	Operation instructions	Interface show	
1	In the measurement mode, press ") " into configuration menu	$\begin{array}{ccc} \rightarrow & \text{Basic} & \rightarrow \\ & \text{System} & \rightarrow \\ & \text{Calibration} & \rightarrow \\ & \text{Test} & \rightarrow \end{array}$	
2	Press"▶ "into Basic menu Click "▼ " to choice PV decimal	PV Units → PV Decimal Total Units ↓ Total Decimal	
3	Click " ▶ " into " PV decimal menu	PV Decimal 3 3	
4	Prees" 👿 " or " 🛕 "set the nstantaneous flow Resolution	PV Decimal 3 2	current value Modify value
5	Press " ◀ "quit setup menu ,LCD show confirm menu	PV Decimal 3 ←ENT ESC → 2	
6	Press" 🗲 "to confirm the change , Press" ▶ "to give up modify	PV Units → PV Decimal Total Units ↓ Total Decimal	-
7	Press" ("two times back to mesuremer	nt,also you can continue other operat	ion

3.) Unit of total

Adjust Total unit, setting range L,m3,gal



4.)Cumulative total flow resolution

Adjusted cumulative flow dots show the median, set the range of 1-3 decimal places

Steps	Operation instructions	Interface show	
1	In the measurement mode, press " 🂽 into configuration menu	$\begin{array}{ccc} \rightarrow & \text{Basic} & \rightarrow \\ & \text{System} & \rightarrow \\ & \text{Calibration} & \rightarrow \\ & \text{Test} & \rightarrow \end{array}$	
2	Press") "into Basic menu Click ") " to choice Total Decimal	PV Units PV Decimal Total Units ↓→Total Decimal	
3	Click " ▶ " into " Total Decimal menu	Total Decimal 3 3	
4	Prees" ▼ " or " ▲ "set the Cumulative total flow resolution	Total Decimal 3 2	current value Modify value
5	Press " ◀ "quit setup menu , LCD show confirm menu	Total Decimal 3 ←ENT ESC → 2	_
6	Press" ◀ "to confirm the change, Press" ▶ "to give up modify	PV Units PV Decimal Total Units ↓→Total Decimal	_
7	Press" ("two times back to mesuremer	it,also you can continue other operat	ion



5.) Damping time (S)

Damping time on the meter display and output. Set range o 1-99 9S (unit is "seconds"). Set as follows:

Steps	Operation instructions	Interface show	
1	In the measurement mode, press " F into configuration menu	$\begin{array}{ccc} \rightarrow & \text{Basic} & \rightarrow \\ & \text{System} & \rightarrow \\ & \text{Calibration} & \rightarrow \\ & \text{Test} & \rightarrow \end{array}$	
2	Press"▶ "into Basic menu Click "▼ " to choice Damping(S)	 ↑ PV Decimal Total Units Total Decimal → Damping(S) 	
3	Click " ▶ " into " Damping(S) menu	Damping(S) 02.0 Max: 99.9 Min: 0.2 02.0	
4	Prees" ▼ " or " ▲ "and " ▶ "set the Damping time	Damping(S) 02.0 Max: 99.9 Min: 0.2 03.0	current value Modify value
5	Press " ◀ "quit setup menu , LCD show confirm menu	Damping(S) ←ENT ESC → 03.0	_
6	Press" ◀ "to confirm the change, Press" ▶ "to give up modify	 ↑ PV Decimal Total Units Total Decimal → Damping(S) 	
7	Press" ("two times back to mesuremen	t,also you can continue other operat	ion

Convert

6.)New Password

system constituent's initial password:0200

Steps	Operation instructions	Interface show	
1	In the measurement mode, press "▶ " into configuration menu,Click " ▼ " to choice "System" item	Basic \rightarrow \rightarrow System \rightarrow Calibration \rightarrow Test \rightarrow	
2	press the key of show password interface,enter password,press the key of enter into system constituent menu	 → New Password Language Signal ↓ Pulse Output 	
3	Click " ▶ " into " New Password" menu	New Password 0200 0200	
4	Prees" ▼ " or " ▲ "and " ▶ "set the New Password	New Password 0200 0210	current value Modify value
5	Press " ◀ "quit setup menu , LCD show confirm menu	New Password 02.0 ←ENT ESC → 03.0	
6	Press" ◀ "to confirm the change, Press" ▶ "to give up modify	 → New Password Language Signal ↓ Pulse Output 	_
7	Press" ("two times back to mesuremer	nt,also you can continue other operati	ion

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7.)Scale flow (m3/h)

Meter-scale flow (QMAX) range depending on the caliber meter . Scale flow units: m3/h.

Steps	Operation instructions	Interface show	
1	In the measurement mode, press "▶ " into configuration menu,Click " ▼ " to choice "System" item	Basic \rightarrow \rightarrow System \rightarrow Calibration \rightarrow Test \rightarrow	
2	press the key of ,show password interface,enter password,press the key of enter into system constituent menu	 →New Password Language Signal ✓ Pulse Output 	
3	Press " V " to choice "Signal" item	New Password Language →Signal ↓ Pulse Output	
4	Press") " into " Signal" menu	→Qmax(m3/h) Low Cutoff%	
5	Press "▶ " into " Qmax(m3/h)" menu,Prees" ▼ " or " ▲ "and " ▶"set the Scale flow	Qmax(m3/h) Max: 999999999 Min: 0.000100 120.0	current value Modify value
6	Press " ◀ "quit setup menu , LCD show confirm menu	Qmax(m3/h) 100.0 ←ENT ESC → 120.0	
7	Press" (ito confirm the change, Press") ito give up modify	Qmax(m3/h Low Cutoff%	
8	Press" ("three times back to mesurem	ent,also you can continue other oper	ration

8.) Small flow termination%(low %)

The parameters on the display and output are valid. When the traffic signal to terminate below the low flow rate (unit%) of the settings to set the value of the The signal will be removed, display and output to zero. The termination of the small percentage is relative to the scale in terms of flow rate settings. Set As follows

Steps	Operation instructions	Interface show	
1	In the measurement mode, press "▶ " into configuration menu,Click "▼ " to choice "System" item	Basic \rightarrow \rightarrow System \rightarrow Calibration \rightarrow Test \rightarrow	
2	press the key of show password interface,enter password,press the key of enter into system constituent menu	→New Password Language Signal ↓ Pulse Output	
3	Press " 👿 " to choice "Signal" item	New Password Language →Signal ↓ Pulse Output	
4	Press " ▶ " into " Signal" menu Press " ▼ " to choice "Low Cutoff" item	Qmax(m3/h) → Low Cutoff%	
5	Press "▶ " into " Low Cutoff%" menu,Prees" ▼ " or "▲ "and "▶ "set the Small flow	Low Cutoff% 1.0 Max: 9.9 Min: 0.0 1.0	current value Modify value
6	Press " 🗨 "quit setup menu , LCD show confirm menu	Low Cutoff% 1.0 ←ENT ESC → 2.0	
7	Press" ◀ "to confirm the change, Press" ▶ "to give up modify	Qmax(m3/h Low Cutoff%	
8	Press" Three times back to mesurem	ent,also you can continue other oper	ration

9.) Frequency upper limit Hz (output frequency range of the instrument 100-5000Hz)



When the Liter/ pulse = 0.0, the case "frequency cap Hz" setting determines the

frequency of the output

When the Liter/pulse >0.0, the setting of L/P determines the frequency output

Steps	Operation instructions	Interface show	
1	In the measurement mode, press "▶ " into configuration menu,Click "▼ " to choice "System" item	Basic \rightarrow \rightarrow System \rightarrow Calibration \rightarrow Test \rightarrow	
2	press the key of , show password interface,enter password,press the key of enter into system constituent menu	 →New Password Language Signal ✓ Pulse Output 	
3	Press " V " to choice "Pulse Output" item	New Password Language Signal ↓→Pulse Output	
4	Press " ▶ " into " Pulse Output" menu,Press " ▼ " to choice "Freq Max(Hz)" item	Freq Direct → Freq Max(Hz) Liter/Pulse ↓ PulseWidth(ms	
5	Press "▶ " into " Freq Max(Hz)" menu,Prees" ▼ " or "▲ "and "▶ "set the Frequency upper limit	Freq Max(Hz) 4000.0 Max: 5000.0 Min: 100.0 5000.0	current value Modify value
6	Press " 🗲 "quit setup menu , LCD show confirm menu	Freq Max(Hz)	_
7	Press" ◀ "to confirm the change, Press" ▶ "to give up modify	Freq Direct → Freq Max(Hz) Liter/Pulse ↓ PulseWidth(ms	
8	Press"	ent,also you can continue other oper	ration

10.) Liter/pulse(L/P)

Scale corresponding to the current flow of output frequency

Outp	put Frq(Hz) = $\frac{\text{Current Flow(m3/h) /3.6}}{\text{Liter/pulse(L/P)}}$	Current Flow(L/s)	
Steps	Operation instructions	Interface show	
1	In the measurement mode, press "▶ " into configuration menu,Click " ▼ " to choice "System" item	Basic \rightarrow \rightarrow System \rightarrow Calibration \rightarrow Test \rightarrow	1
2	press the key of show password interface,enter password,press the key of enter into system constituent menu	 →New Password Language Signal ↓ Pulse Output 	_
3	Press " V " to choice "Pulse Output" item	New Password Language Signal ↓→Pulse Output	_
4	Press ") " into " Pulse Output" menu,Press ") " to choice "Liter/Pulse" item	Freq Direct Freq Max(Hz) → Liter/Pulse ↓ PulseWidth(ms	_
5	Press " ▶ " into " Liter/Pulse" menu,Prees" ▼ " or " ▲ "and " ▶ "set the Liter/Pulse	Liter/Pulse 0.00000 Max: Min: 0.00055 0.01000	current value Modify value
6	Press " 🗲 "quit setup menu , LCD show confirm menu	Liter/Pulse	_
7	Press" ◀ "to confirm the change, Press" ▶ "to give up modify	Freq Direct Freq Max(Hz) → Liter/Pulse ↓ PulseWidth(ms	_
8	Press" ("three times back to mesurem	ent, also you can continue other ope	ration

11.) Cumulate Clear

Steps	Operation instructions	Interface show	
1	In the measurement mode, press "▶ " into configuration menu,Click " ▼ " to choice "System" item	Basic \rightarrow \rightarrow System \rightarrow Calibration \rightarrow Test \rightarrow	
2	press the key of ,show password interface,enter password,press the key of enter into system constituent menu	 →New Password Language Signal → ↓ Pulse Output 	
3	Press " ▼ " to choice "Total Set" item	 ↑ Signal → Pulse Output → RS485 Output → ↓→Total Set → 	
4	Press " ▶ " into "Clear Total" menu	→ Clear Total FWD Preset(m3)	
5	Press " ▶ " into " Clear Total" menu,Prees" ▼ " or " ▲ " set the YES or NO	Clear Total NO Yes	current value Modify value
6	Press " 🗲 "quit setup menu , LCD show confirm menu	Clear Total NO ←ENT ESC → Yes	
7	Press" ◀ " two times to Clear Total,Press" ▶ "to give up modify	→ Clear Total FWD Preset(m3)	
8	Press"	ent,also you can continue other oper	ration

12.)Preset total positive

Steps	Operation instructions	Interface show
1	In the measurement mode, press "▶ " into configuration menu,Click " ▼ " to choice "System" item	Basic \rightarrow \rightarrow System \rightarrow Calibration \rightarrow Test \rightarrow
2	press the key of ,show password interface,enter password,press the key of enter into system constituent menu	 →New Password Language Signal → ↓ Pulse Output
3	Press " ▼ " to choice "Total Set" item	 ↑ Signal → Pulse Output → RS485 Output → ↓→Total Set →
4	Press " ▶ " into " Pulse Output" menu	→ Clear Total FWD Preset(m3)
5	Press " ▼ " to choice "FWD Preset(m3)" item	Clear Total → FWD Preset(m3)
6	Press " ▶ " into " Clear Total" menu,Prees" ▼ " or " ▲ " set the YES or NO	FWD Preset(m3) 000.000000 Max: Min: 500.000000
8	Press " 🗲 "quit setup menu	→ Clear Total FWD Preset(m3)
7	Press" ("three times back to mesurement, also you can continue other operation of the section o	



การคำนวนค่า K-Factor ใหม่ เพื่อ ปรับปริมาณให้ตรงความจริง Nitto

<u>ตัวอย่าง</u> Flowmeter KF510 ขนาด 1" K- Factor = 23490.0000

ค่าที่จริง ที่ได้จากการตวง (ที่คิดว่าใช่) 26 m3/hr ค่าแสดงบนหน้าจอ (Display) 25 m3/hr ค่าแตกต่าง 1 m3/hr

ค่า K-factor หรือือ Coeffeint ให้ดูจากใบ Certificate หรือ ในตัว Flowmeter

<u>ปรับให้ค่าตรง</u>

<u>สูตร</u> ค่าที่แสดงบนจอ (Display) / ค่าที่จริง 25 / 26 = 0.961538 ค่าใหม่ K-factor: 0.96153 x 23490.0000 = 22586.5384 (ค่า K-Factor ใหม่)

ให้เอาค่าใหม่ที่ได้ใส่ในค่า K Sensor

<u>ขั้นตอนวิธีการเข้า โปรเกรม สำหรับปรับค่า Parameter K-Sensor</u>

- กดปุ่ม V หน้าจอแสดง PASSWORD ใหใส่ค่า 1111 โดยกดปุ่ม V หรือ เพื่อ เปลี่ยนค่า และใช้ปุ่ม i เพื่อเลื่อนตำแหน่ง เมื่อใส่ค่า ครบแล้วให้กดปุ่ม
 จะเข้าสู่ โหมด พารามิเตอร์ ต่างๆ
- เลือก ไปที่ Sensor K ให้เปลี่ยนค่าตามที่คำนวน ได้จากด้านบน เช่น
 22586.5384 (โดยกดปุ่ม ▼ หรือ ▲ เพื่อเปลี่ยนค่า และใช้ปุ่ม ▶ เพื่อเลื่อน
 ตำแหน่ง)
- 4. จากนั้นกดปุ่ม ┥ เลือก ENT แล้วกดปุ่ม ┥ 2 ครั้ง เพื่อออกจาก เมนู
- ให้ดูค่าแสดงบนหน้าจอว่าตรงกับของจริงหรือไม่ ถ้ายังไม่ได้ ก็คำนวนให้แล้วใส่ K-Factor อีกครั้ง ตัวที่คูณ ให้ใช้ ค่า K-Factor ใหม่ได้เลย.
- เมื่อเสร็จสิ้นการปรับตั้งค่าแล้วให้ออกจาก โปรเกรม โดยการกด K A ค้างไว้ 5

วินาทีหน้าจอ ออกสู่หน้าจอปกติ