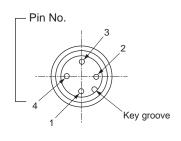
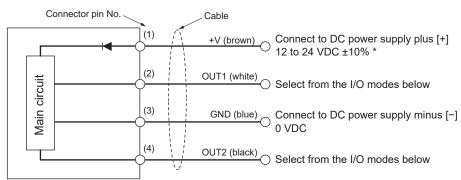


Wiring method

- · Always read the safety precautions before wiring.
- The cable used is a 4-conductor cabtyre cable with a core of 0.5 mm².
 - * Keep the cable far away from power cords or other things that may cause noise. Noise can cause malfunctions.

[Connector (male)]





* With a standard analog output (0 to 5 V/1 to 5 V). With option (4 to 20 mA/0 to 10 V/1 to 10 V), it is 24 VDC ±10%.

I/O mode

OUT 1: analog flow output, analog temperature output, flow switch 1 output, flow switch 2 output, temperature switch 1 output, temperature switch 2 output, integrated pulse output, integrated switch output, external input, OFF

	Item	[A, D] 0 to 5V/ 1 to 5V	[B, E] 4 to 20mA	[C, F] 0 to 10V/ 1 to 10V
ĺ	Allowable load weight	50 kΩ or more	500 Ω or less	50 kΩ or more

OUT 2: analog flow output, analog temperature output, flow switch 1 output, flow switch 2 output, temperature switch 1 output, temperature switch 2 output, integrated pulse output, integrated switch output, IO-Link, OFF

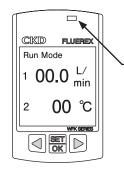
The default settings are the following:

IO-Link/Analog output	OUT1	OUT2		
Switch/analog output	Analog flow output	Analog temp output		
IO-Link compatible	OFF	IO-Link		

IO-Link parameter specifications

1. General

Item	Details
Communication protocol	IO-Link
Communication protocol version	V1.1
Transmission bit rate	COM2 (38.4 kbps)
Port	M12 Class A
Process data (input)	4 byte
Process data (output)	0 byte
Min. cycle time	5 ms
Data storage	1 kbyte
SIO mode support	None



Power light (green)

 Lights when the power is ON. Blinks during IO-Link communication.

2. Process data

Bit	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16
Data	MSB															LSB
Data	Instantaneous flow rate [Flow Rate]															
Data range	ta range Refer to Table 1															
Format		UInteger 16														
Bit	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
				12	11		9 output		7 MSB	6	5	4	3	2	1	0 LSB
Bit Data	15 Error	14 WARNING		12	4				7 MSB	•			3 re [Tem		1 e]	<u> </u>
				-		Switch	output		MSB	•		nperatu			1 e]	<u> </u>

Data range (Table 1)

Flow rate range	005	020	050	100	250	
Data range	0.00 to 5.50 L/min	0.0 to 22.0 L/min	0.0 to 55.0 L/min	0 to 110 L/min	0 to 275 L/min	

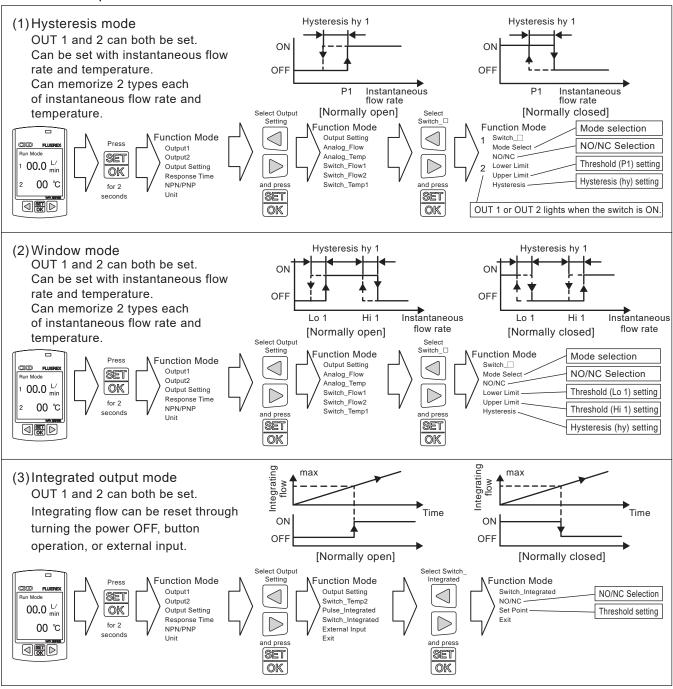
^{*} IODD files can be downloaded from the CKD website. (https://www.ckd.co.jp/en/)

Display screen details

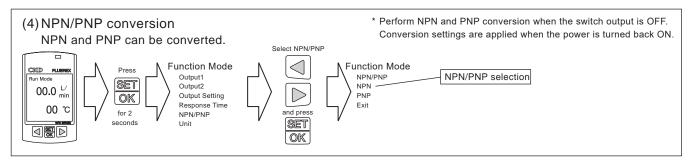
Names and functions of display/operation section Main screen Mode display The state of instantaneous flow rate, Display the screen mode. CKD FLUEREX integrating flow, temperature, and various Run Mode 🗲 settings are displayed. 00.0 L/ Unit display Display the value units. ℃ 00 2 Set key Output display WFK SERIES OK D Indicates the switch output status. Selection key

Output mode and output operation

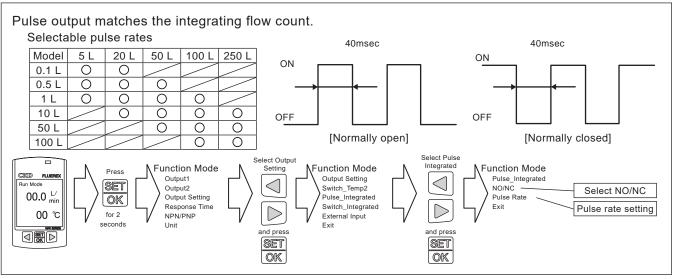
1. Switch output



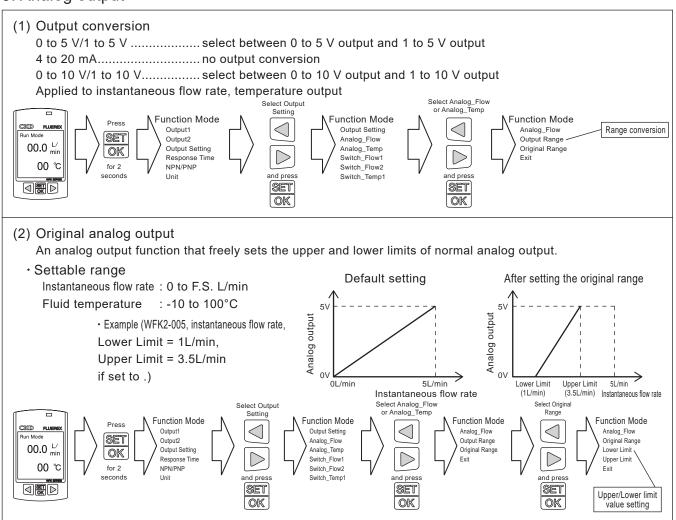




2. Integrated pulse output

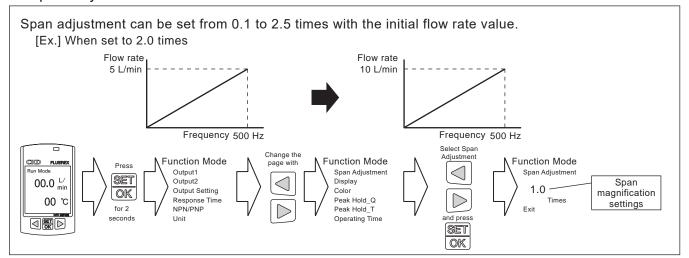


3. Analog output

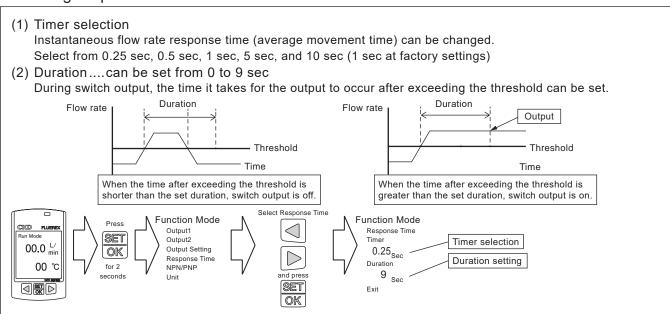


Output mode and output operation

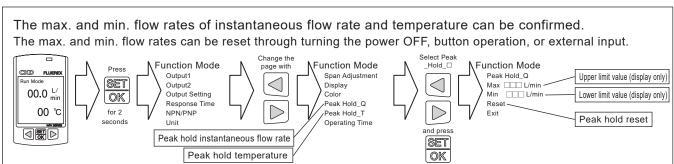
4. Span adjustment



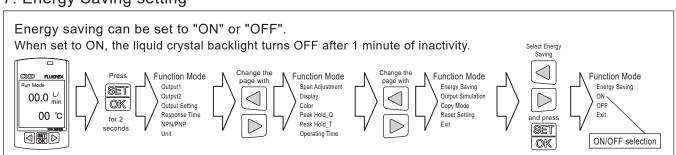
5. Setting response time



Peak hold

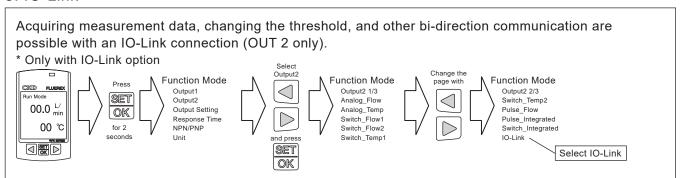


7. Energy Saving setting

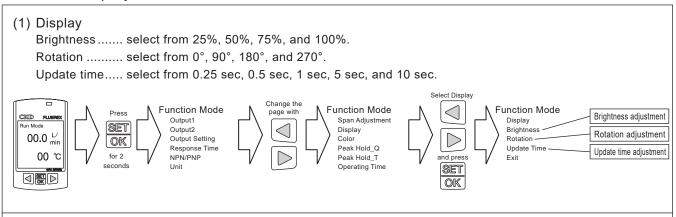




8. IO-Link



9. Screen display

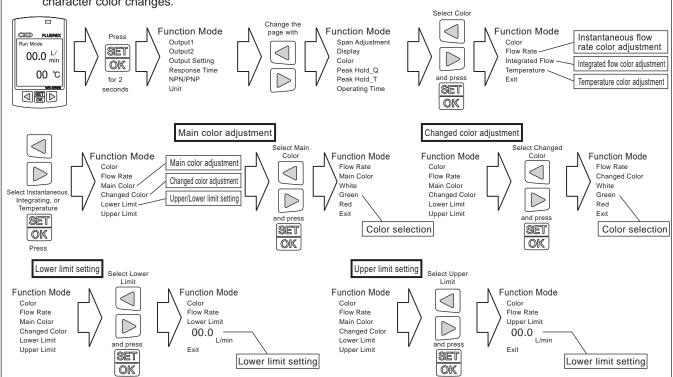


(2) Color

Main Color: change the color of characters on the main display. (Select from white, green, and red) Changed Color: change the color when the instantaneous flow rate, integrating flow rate, and temperature go above or below their set upper and lower limits.

Change character color.....select from white, green, and red

- Upper limit setting: the upper limits of instantaneous flow rate, integrating flow rate, and temperature at which character color changes.
- Lower limit setting: the lower limits of instantaneous flow rate, integrating flow rate, and temperature at which character color changes.



Refer to the instruction manual regarding operation of other functions (setting copy, external input, unit change, simulation output, power ON time display, all reset, etc.).

Easy setting function

Easy setting function

Frequently used settings can be set from the normal screen using shortcut operations.

