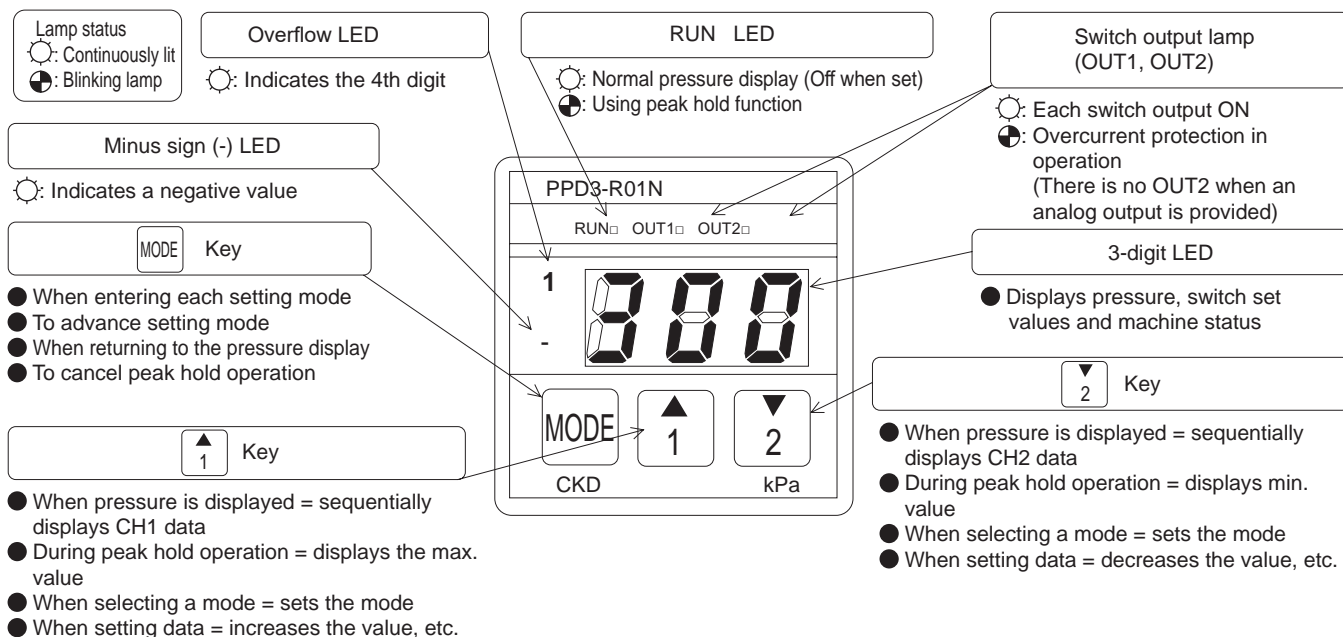


# PPD3/PPD3-S Series

F.R.L.  
F.R.  
F (Filtr)  
R (Reg)  
L (Lub)  
Drain Separ  
Mech Press SW  
Res press exh valve  
SlowStart  
Anti-bac/Bac-  
remove Filt  
Film Resist FR  
Oil-ProhR  
Med Press FR  
No Cu/PTFE FRL  
Outdrs FRL  
Adapter Joiner  
Press Gauge  
CompFRL  
LgFRL  
PrecsR  
VacF/R  
Clean FR  
ElecPneUR  
AirBoost  
Speed Ctrl  
Silncr  
CheckV/  
other  
Fit/Tube  
Nozzle  
Air Unit  
PrecsCompn  
Electro Press SW  
ContactSW  
AirSens  
PresSW Cool  
Air Flo Sens/Ctrl  
WaterRtSens  
TotAirSys (Total Air)  
TotAirSys (Gamma)  
Gas generator  
RefrDry  
DesiccDry  
HiPolymDry  
MainFiltr  
Dischrg etc  
Ending

## Display and function



## LED display

Numbers and letters are displayed with a combination of LED displays.

Numerals	0	1	2	3	4	5	6	7	8	9
Display	0	1	2	3	4	5	6	7	8	9

Characters	A	B (b)	C	D (d)	H	I (i)	J	L	N (n)	O (o)	P
Display	A	b	C	d	H	i	J	L	n	o	P

Rated pressure	980 kPa	300 kPa	100 kPa
Model No.	R10	R03	R01
Pressure code	JO JO	LO LO	HO HO

Model No. display

JO n

Output	NPN output	PNP output
Model No.	N, NA	P, PA
Output code	N n	P p

## Confirmation of set value

CH1 data display

Hold down

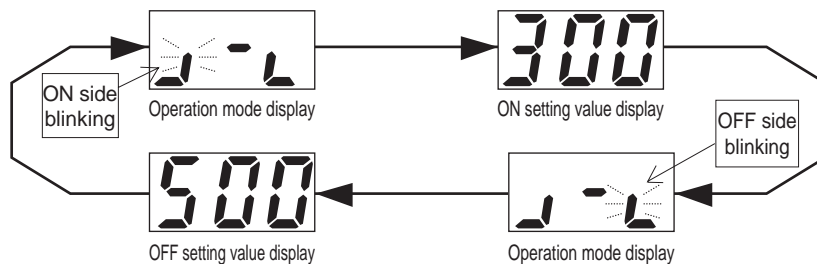


CH2 data display

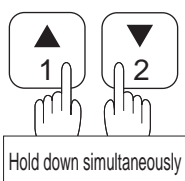
Hold down



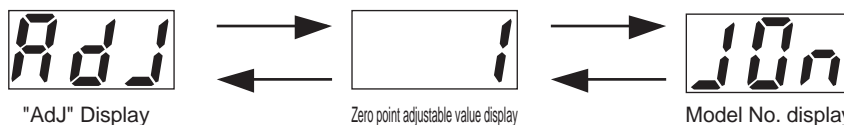
By pressing each key during pressure display, the switch data ON setting/OFF setting/operation waveform, zero point adjustment value, pressure range, and output can be confirmed. Switch operation is not affected during the next operation.



Zero point adjustment value/model No. display



The zero point adjustment value and model No. are displayed alternately. The switch operation is not affected during this operation.

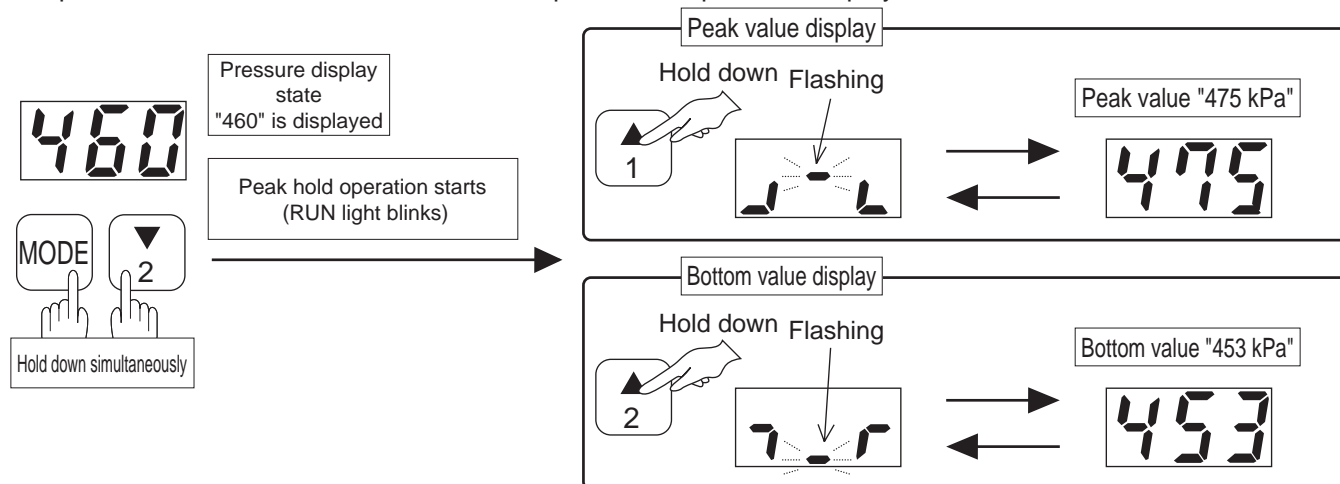


### Operation method of each function

#### Peak hold function

The max. and min. pressure values over a given period can be displayed.

Use this to check the stability of source pressure, working pressure, etc. The peak hold operation does not affect this product's basic functions such as switch operations or pressure display.



#### Switch output function

Refer to following page for operation method.

The PPD3 (-S) has a 2-point or 1-point switch output, and operates in 4 operation modes and stopping operation. The switch is started by setting the required operation mode (refer to the switch operation mode on page 1191) and by making two settings, ON and OFF, that regulate the operation pressure.

Determine the required operation mode and ON and OFF setting values before making settings.

Select and set the following data to operate the switch.

CH1: Operation mode

CH1: ON set value

CH1: OFF set value

CH2: Operation mode

CH2: ON set value

CH2: OFF set value

(CH2 is not used with analog output. Nothing can be output even if set.)

#### Switch output test function

Refer to following page for operation method.

Use this function to forcibly turn the switch output ON and confirm the wiring connection or initial operation of the input device.

\*1: Use this test function to check the wiring connection and input device operation. Avoid using this function instead of actual signals when executing the sequence program while the machinery and equipment are operating.

(Refer to Precautions: Caution "During use/maintenance" on page 1229.)

#### Zero point adjustment function

Refer to following page for operation method.

Deviation of the display from the zero point is compensated in the atmospheric pressure pressurized state.

\*2: The above settings and test significantly affect the output signal and display. Before this operation, be sure to stop the machinery and equipment using this product and confirm that safety can be ensured in case of incorrect operation or display. Using this function while the machinery and equipment are operating is dangerous and may cause incorrect operation or display. \*3: To avoid incorrect operation, all keys must be held down for a set time to select the mode.

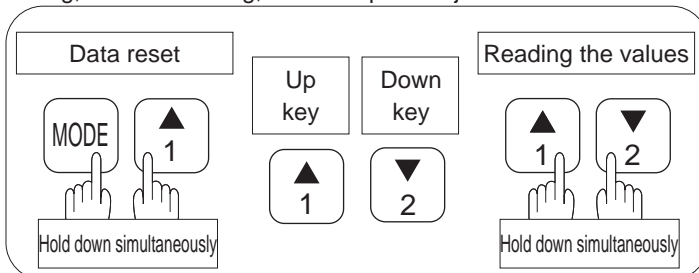
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Clean FR
ElecPneuR
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Speed Ctrl
Silncr
CheckV/ other
Fit/Tube
Nozzle
Air Unit
PrecsCompn
Electro Press SW
ContactSW
AirSens
PresSW Cool
Air Flo Sens/Ctrl
WaterRISens
TotAirSys (Total Air)
TotAirSys (Gamma)
Gas generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending

# PPD3/PPD3-S Series

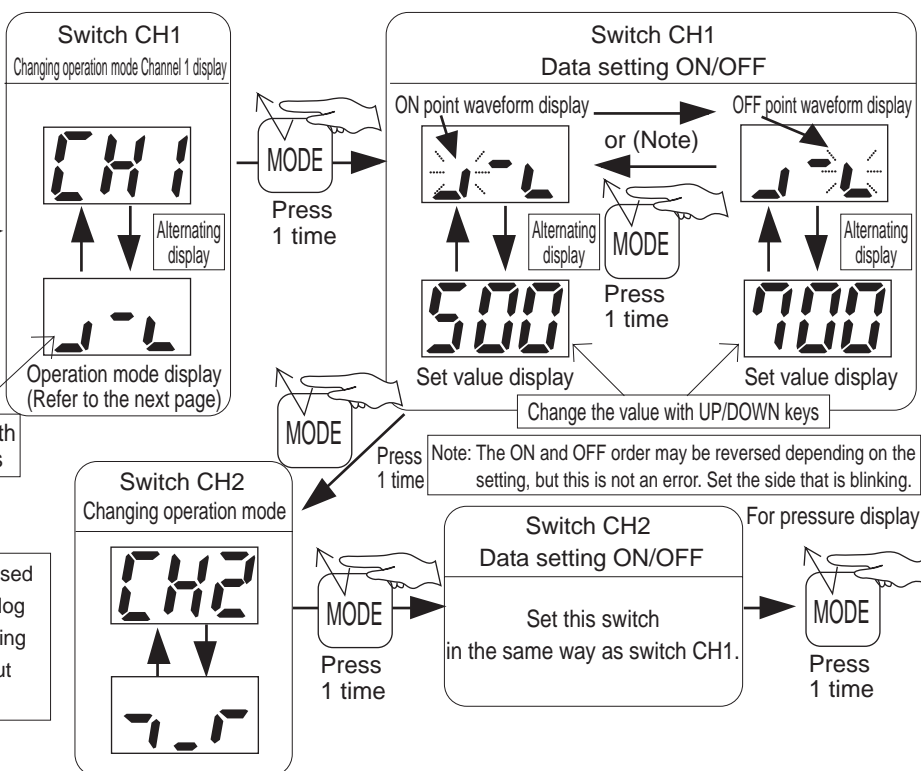
## Operation chart for switch output function/forced output function/zero point adjustment function

### Basic key operation

These key operations are valid in the switch operation pattern setting, ON/OFF setting, and zero point adjustment mode.

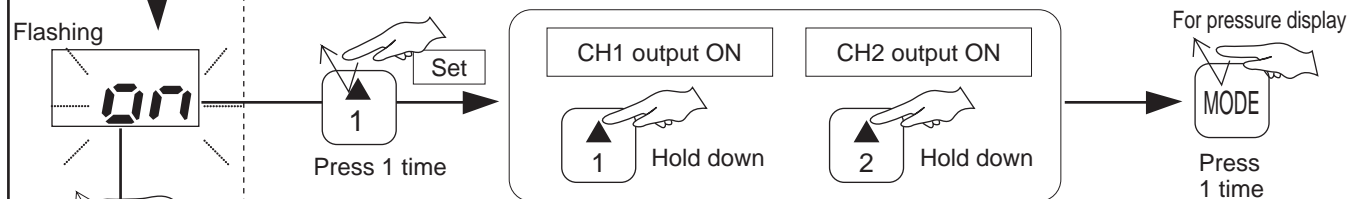


### Setting data for the switch output function



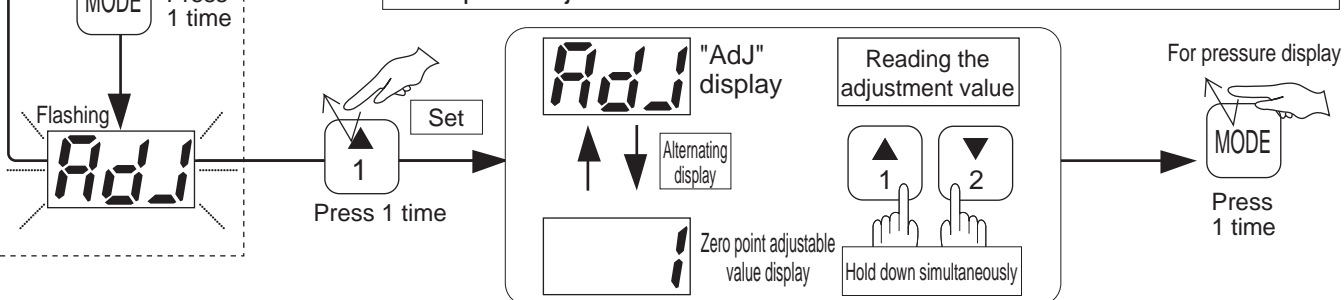
### Switch output forced ON mode

For pressure display

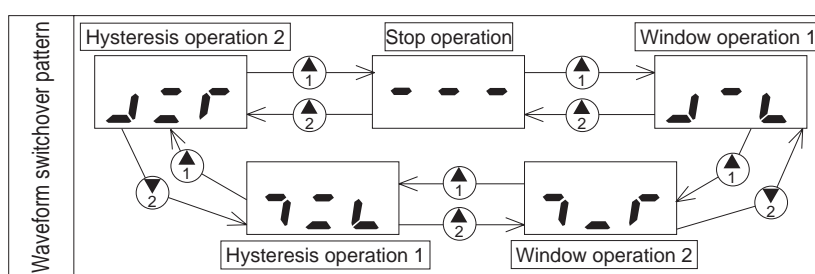


### Zero point adjustment mode

For pressure display



Switch operation mode			
Operation mode name	Operation waveform	LED operation waveform display	Applications
<b>1</b> Window operation 1 (ON when inside range)			When used to confirm source pressure, the ON signal is output as the normal signal if main pressure is within the appropriate range.
<b>2</b> Window operation 2 (ON when outside range)			When used to confirm source pressure, the ON signal will be output as the error signal if main pressure is abnormal.
<b>3</b> Hysteresis operation 1 (ON at low pressure)			When used to confirm suction, the ON signal will be output if suction pressure for picking up the workpiece has sufficiently dropped.
<b>4</b> Hysteresis operation 2 (ON at high pressure)			When used to confirm contact, the ON signal is output if the workpiece is held and pressure has sufficiently increased.
<b>5</b> Stop operation			When not using the switch output, stop operation to prevent damage and accidents.



- \*1: In a window operation, provide an interval of 3% F.S. or more between the two setting values.  
A 1% F.S. hysteresis is automatically added to the ON and OFF sides.
- \*2: For hysteresis operation, provide an interval of 1% F.S. or more between the 2 set values.  
If the two settings are the same, operation may not take place or may be unstable.
- \*3: The left side of the operation waveform indicates negative pressure, and the right side indicates positive pressure.
- \*4: The magnitude relation of the ON set value and OFF set value is determined when the operation mode is determined, and cannot be reversed. With this product, however, operation of the designated operation pattern is the priority. When two setting values are input, the device automatically judges their magnitude and assigns them setting values as ON and OFF accordingly. Thus, even if ON and OFF setting values are input in reverse by mistake, they will be corrected and operation will take place in the specified mode.

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