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сайт: www.fuji.nt-rt.ru || эл. почта: fxu@nt-rt.ru

Micro Controller PXG Series

Digital Temperature Controller



www.fuji.nt-rt.ru

- **Auto manual operation with A/M key**
- **Universal process value input**
- **Motorized valve control**
 - Position feed back
 - Servo control
- **Smart ramp-soak**
 - Profile recovery
 - Profile cycling
 - Delayed start
 - PV start
 - 4 patterns, max 32 segments/program
 - Guaranteed soak
- **Password function**
- **Alarm Flicker function**

PXG

Fuji Electric Co., Ltd.

ECNO:1157c

200ms sampling cycle and $\pm 0.3\%$ FS

Model: PXG



Universal process value input

- Resistance bulb Pt100,
- Thermocouple (J,K,R,B,S,T,N,PL-II)
- DC voltage (1-5V,0-5V, 0-10V,2-10V,0-100mV)

Remote-SV input

DC voltage (1-5V,0-5V)

Position feedback input

100ohms to 2.5k ohms

Digital input (Max 5 points)

Transmitter power supply (PXG9 only)

PV/SV light out

Control-output (5types)

- Relay contact
- SSR/SSC drive
- DC0-20mA/DC4-20mA
- DC0-5V/1-5V/0-10V/2-10V
- Motor-operated valve manipulating

Digital output

Relay contact : 3 points

Open collector: 2 points

RS485 modbus communication function

communication speed: Max. 19200bps

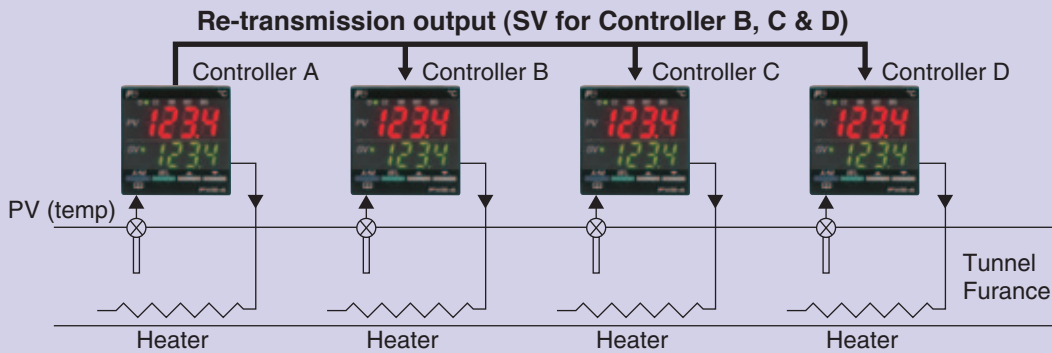
PC loader interface and software through RS-232C Communication

PID palette (for 8 combinations)

Application example

1 Re-Transmission Output

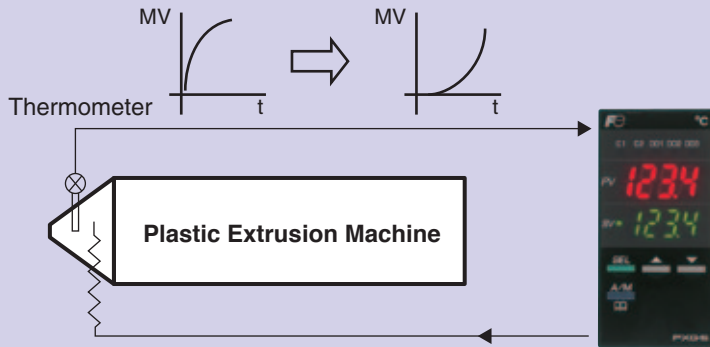
Averaging Temperature in Furnace



The PV of Controller A shall be treated as SV for other controller B, C & D so that the temperature in tunnel furnace can be equalized.

2 Soft Start Function

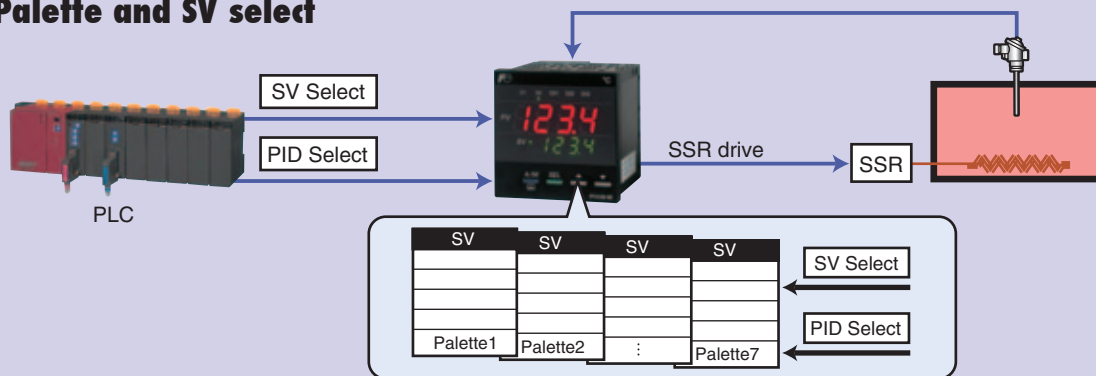
Plastic Extrusion Machine



To protect nozzle material at turning on power of the machine, immediate heating the nozzle shall be with soft start function.

3 PID palette

PID Palette and SV select

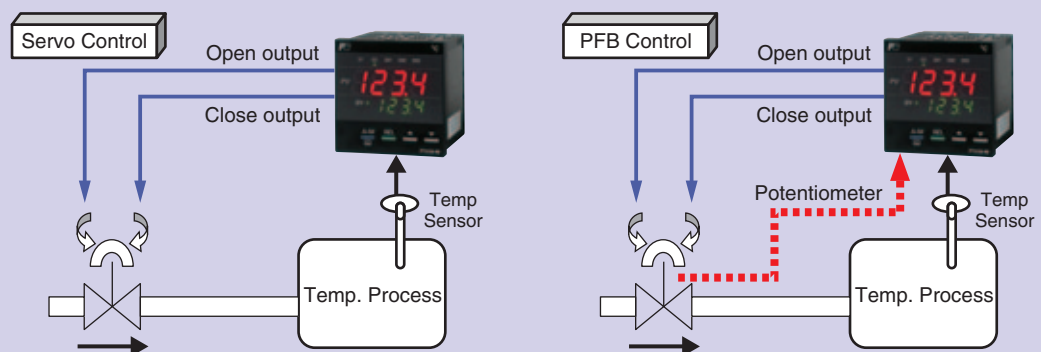


4 Servo control and PFB control

PXG is available for both Servo control and position feedback (PFB) control.

ex. Combustion control.

(Burner and Boiler)



Ordering code

● PXG4 (Standard type)

Digit	Specifications	Note	PXG																				
			4	5	6	7	8	9	10	11	12	13											
4	<Front panel size W x H> 48 x 48mm		4																				
5	<Output 1> Relay contact SSR drive Current (0 to 20 mA DC/4 to 20 mA DC) Voltage (0 to 5 V DC/1 to 5 V DC/0 to 10 V DC/2 to 10 V DC)	Note1 Note1		A	C	E	P																
6	<Output 2> None Relay contact SSR drive Current (0 to 20 mA DC/4 to 20 mA DC) Voltage (0 to 5 V DC/1 to 5 V DC/0 to 10 V DC/2 to 10 V DC) Re-transmission output, current (0 to 20 mA DC/4 to 20 mA DC) Re-transmission output, voltage (0 to 5 V DC/1 to 5 V DC/0 to 10 V DC/2 to 10 V DC)	Note2 Note4 Note2 Note4 Note2 Note4 Note2 Note4 Note2 Note4		Y	A	C	E	P	R	S													
7	<Option 1> None RS485 Digital input (No.1) + Digital input (No.2) Digital input (No.1) + RSV1 Digital input (No.1) + CT1 RS485 + Digital input (No.1) RS485 + RSV1 RS485 + CT1 RS485 + Digital input (No.1) + RSV1 Digital input (No.1) + RSV1 + Digital input (No.2)	Note1 Note3 Note1 Note3 Note4 Note4		Y	M	T	H	G	V	K	J	F											
8	<Revision symbol>		1																				
9	<Digital output> (relay contact output) None digital output 1 point (No.1) digital output 2 points (No.1,2) digital output 3 points (No.1,2,3) digital output 2 points [independent common] (No. 1, 2)	Note3 Note2							0	1	F	M	J										
10	<Power source, instruction manual> 100 to 240 V AC, no instruction manual 100 to 240 V AC, Japanese instruction manual 100 to 240 V AC, English instruction manual 24 V AC/DC, no instruction manual 24 V AC/DC, Japanese instruction manual 24 V AC/DC, English instruction manual								N	Y	V	C	A	B									
11	<Option 2> None										Y												
12	<Special code>																						
13	Standard Special codes prepared for shipping destination																				0	0	**

- Note 1: If output 1 was for current or voltage output, option cannot be assigned to CT1.
(If 7th digit was assigned to G or J, 5th digit cannot be assigned to E nor P)
- Note 2: If output 2 was for relay contact, SSR drive, current, voltage or retransmission output, 3 digital outputs cannot be assigned.
(If 6th digit was assigned to A, C, E, P, R or S, 9th digit cannot be assigned to M.)
- Note 3: If CT1 was selected in option 1, None in <Digital output> cannot be assigned.
(If 7th digit was assigned to G or J, 9th digit cannot be assigned to 0.)
- Note 4: If RSV1 in option 1 and digital input 1 were selected simultaneously, output 2 cannot be assigned.
(If 7th digit was assigned to F or 2, 6th digit cannot be assigned to A, C, E, P, R nor S.)

● PXG4 (Motor-operated valve control type)

Digit	Specifications	Note	PXG																				
			4	5	6	7	8	9	10	11	12	13											
4	<Front panel size W x H> 48 x 48mm		4																				
5	<Output 1> Motorized valve control output (Without PFB)	Note1		S																			
6	<Output 2> None			Y																			
7	<Option 1> None Digital input (No.1) + RSV1 Digital input (No.1,2,3) RS485 + Digital input (No.1) RS485 + RSV1			Y	H	D	V	K															
8	<Revision symbol>		1																				
9	<Digital output> (relay contact output) None digital output 1 point (No.1) digital output 2 points (No.1,2) digital output 2 points [independent common] (No. 1, 2)								0	1	F	M	J										
10	<Power source, instruction manual> 100 to 240 V AC, no instruction manual 100 to 240 V AC, Japanese instruction manual 100 to 240 V AC, English instruction manual 24 V AC/DC, no instruction manual 24 V AC/DC, Japanese instruction manual 24 V AC/DC, English instruction manual								N	Y	V	C	A	B									
11	<Option 2> None										Y												
12	<Special code>																						
13	Standard Special codes prepared for shipping destination																				0	0	**

- Note 1: If front panel size is 48 x 48, position feedback input (PFB input) function is not available.

● PXG5/PXG9 (Standard type)

Digit	Specifications	Note	PXG																				
			4	5	6	7	8	9	10	11	12	13											
4	<Front panel size W x H> 48 x 96mm 96 x 96mm			5	9																		
5	<Output 1> Relay contact SSR drive Current (0 to 20 mA DC/4 to 20 mA DC) Voltage (0 to 5 V DC/1 to 5 V DC/0 to 10 V DC/2 to 10 V DC)	Note1 Note1		A	C	E	P																
6	<Output 2> None Relay contact SSR drive Current (0 to 20 mA DC/4 to 20 mA DC) Voltage (0 to 5 V DC/1 to 5 V DC/0 to 10 V DC/2 to 10 V DC) Re-transmission output, current (0 to 20 mA DC/4 to 20 mA DC) Re-transmission output, voltage (0 to 5 V DC/1 to 5 V DC/0 to 10 V DC/2 to 10 V DC) Transmitter power supply	Note3 Note3 Note3 Note3 Note3 Note3 Note6		Y	A	C	E	P	R	S													
7	<Option 1> None RS485 Digital input (No.1) + Digital input (No.2) Digital input (No.1) + RSV1 Digital input (No.1) + CT1 RS485 + Digital input (No.1) RS485 + RSV1 RS485 + CT1 RS485 + Digital input (No.1) + RSV1 Digital input (No.1) + RSV1 + Digital input (No.2)	Note2 Note1 Note4 Note5 Note2 Note1 Note4 Note5 Note3 Note3		Y	M	T	H	G	V	K	J	F											
8	<Revision symbol>		1																				
9	<Digital output> (relay contact output) None Digital output 1 point (No.1) Digital output 2 points (No.1,2) Digital output 3 points (No.1,2,3) Digital output 2 points [independent common] (No. 1, 2)	Note4							0	1	F	M	J										
10	<Power source, instruction manual> 100 to 240 V AC, no instruction manual 100 to 240 V AC, Japanese instruction manual 100 to 240 V AC, English instruction manual 24 V AC/DC, no instruction manual 24 V AC/DC, Japanese instruction manual 24 V AC/DC, English instruction manual								N	Y	V	C	A	B									
11	<Option 2> None Digital input (No.3,4,5) + CT2 Digital input (No.3,4,5) Digital input (No.3,4,5) + digital output (No.4,5) [transistor output] Digital input (No.3,4,5) + RSV2	Note1 Note4 Note5 Note2									Y	A	B	C	D								
12	<Special code>																						
13	Standard Special codes prepared for shipping destination																				0	0	**

- Note 1: If output 1 was for current or voltage output, option cannot be assigned to CT1 nor CT2.
(If 7th digit was assigned to G or J, or 11th digit to A, 5th digit cannot be assigned to E nor P.)
- Note 2: RSV1 in option 1 and RSV2 in option 2 cannot be assigned simultaneously.
(If 7th digit was assigned to H or K, 11th digit cannot be assigned to D.)
- Note 3: In case, in option 1, of DI 2 points + RSV1 or RS485 + DI 1 + RSV1, output 2 cannot be assigned.
(If 7th digit was assigned to F or 2, 6th digit cannot be assigned to A, C, E, P, R, nor S.)
- Note 4: In case of CT1 in option 1, or CT2 in option 2, digital output cannot be assigned to None.
(If 7th digit was assigned to G or J, or 11th digit to A, 9th digit cannot be assigned to 0.)
- Note 5: CT1 in option 1 and CT2 in option 2 cannot be selected simultaneously.
(If 7th digit was assigned to G or J, 11th digit cannot be assigned to A.)
- Note 6: Transmitter power supply is only for PXG9.

● PXG5/PXG9 (Motor-operated valve control type)

Digit	Specifications	Note	PXG																				
			4	5	6	7	8	9	10	11	12	13											
4	<Front panel size W x H> 48 x 96mm 96 x 96mm			5	9																		
5	<Output 1> Motorized valve control output (Without PFB) Motorized valve control output (With PFB)			S	V																		
6	<Output 2> None Auxiliary Digital output Transmitter power supply	Note1		Y	A	T																	
7	<Option 1> None Digital input (No.1,2,3) + RSV1 RS485 + Digital input (No.1,2,3) RS485 + Digital input (No.1) + RSV1			Y	E	U	F																
8	<Revision symbol>		1																				
9	<Digital output> <relay contact output> None Digital output 1 point (No.1) Digital output 2 points (No.1,2) Digital output 3 points (No.1,2,3) Digital output 2 points [independent common] (No. 1, 2)								0	1	F	M	J										
10	<Power source, instruction manual> 100 to 240 V AC, no instruction manual 100 to 240 V AC, Japanese instruction manual 100 to 240 V AC, English instruction manual 24 V AC/DC, no instruction manual 24 V AC/DC, Japanese instruction manual 24 V AC/DC, English instruction manual								N	Y	V	C	A	B									
11	<Option 2> None										Y												
12	<Special code>																						
13	Standard Special codes prepared for shipping destination																				0	0	**

- Note 1: Transmitter power supply is only PXG9.

Outline Diagram and Panel Cut (Unit:mm)

Model	Outline	Panel Cut
<p>PXG4</p>		<p>Panel cutout size</p> <p>Side stick mounting (n units) (water-proof property is lost in this case)</p>
<p>PXG5</p>		<p>Panel cutout size</p> <p>Side stick mounting (n units) (water-proof property is lost in this case)</p>
<p>PXG9</p>		<p>Panel cutout size</p> <p>n units mounted</p>