



FUJI PXF SERIES

SPECIFICATIONS

ISO-9001

MANUFACTURED IN A
QUALITY SYSTEM CERTIFIED
FACILITY.



General Specifications

Power supply voltage	100 V (-15%) to 240 V (+10%) AC, 50/60 Hz, 24 V AC/DC (±10%)		
Power Consumption	Model	100 to 240 V AC	24 V DC/AC
	PXF4	10 VA MAX.	5 VA MAX.
	PXF5 & PXF	13 VA MAX.	8 VA MAX.
Insulation Resistance	20M Ohms or more (at 500 V DC)		
Withstand Voltage	Power source ←→ all terminals: 1500 V AC for 1 min Relay contact output . all terminals: 1500 V AC for 1 min Between others: 500 V AC for 1 min		

Process Value Input

Number of Inputs	1
Input Setting	Programmable scale
Indication Accuracy (at Ta = 23°C)	<ul style="list-style-type: none"> Thermocouple input: either ±1°C ±1 digit or ±0.3% of indicated value ±1 digit, whichever is larger *except: Thermocouple B: 0 to 400°C: no accuracy assurance Thermocouple R: 0 to 500°C: ±3°C ±1 digit Thermocouples of which measuring range is between -200°C and -100°C: ±2°C ±1 digit RTD input: ±0.8°C ±1 digit or ±0.2% of indication value ±1 digit, whichever is larger mV input, voltage input, current input: ±0.3%FS ±1 digit
Temperature Effect on Sensitivity	±0.3%FS/10°C
Input Impedance	<ul style="list-style-type: none"> Thermocouple, mV input: 1M Ohms or more Current input: 150 Ohms or less (built-in diode) Voltage input: About 1M Ohms
Variation by Signal Source Resistance	<ul style="list-style-type: none"> Thermocouple, mV input: ±0.3%FS ±1 digit per 100 Ohms Voltage input: ±0.3%FS ±1 digit per 500 Ohms
Allowable Wiring Resistance	• RTD: 10 Ohms MAX. (per wire)
Allowable Input Voltage	<ul style="list-style-type: none"> DC voltage input: within ±35 V Current input: within ±25 mA Thermocouple, RTD, mV input: within ±5 V
Noise Reduction Ratio	Normal mode: 40 dB (50/60 Hz) Common mode: 120 dB (50/60 Hz) Between input and power supply: ±1°C at 220 V AC, 50/60 Hz
Input Correction	(a) User adjustment: ±50%FS for each of zero and span point (b) Process value shift: ±10%FS (c) Input filter: 0.0 to 120.0 s (filter is off when set to 0.0) (d) Square root extraction: -0.1 to 105% (OFF if set to -0.1%)
Overrange · Underrange	Out of the range between -5% and 105% FS (accuracy is not assured between -5 and 0, and between 100 and 105%FS) *except: • Pt (-200°C to 850°C) input: Out of the range between • 0 to 10 V DC input: -2% to 105% of FS • Thermocouple E: Out of the range between -5 to 102% of FS

Control Output

Type Select among 2 to 6	2. Relay contact output (SPDT) <ul style="list-style-type: none"> Proportional cycle: 1 to 150 s Contact structure: 1 SPDT contact *SPDT: single pole double t row Contact capacity: 250 V AC/30 V DC, 5A (resistive load) Mechanical life: 50 million operations MIN. (100 operations/min) Electrical life: 100,000 operations MIN. (rated load)
	3. SSR/SSC drive output <ul style="list-style-type: none"> Proportional cycle: 1 to 150 s ON voltage: 12 V DC (between 10.7 and 13.2 V DC) OFF voltage: 0.5 V DC or lower Maximum current: 20 mA DC Load resistance: 600 Ohms MIN.
	4. Current output (0 to 20 mA DC/4 to 20 mA DC) <ul style="list-style-type: none"> Accuracy: ±5%FS Load resistance: 500 Ohms MAX.
	5. Voltage output (0 to 5 V DC/1 to 5 V DC/0 to 10 V DC/2 to 10 V DC) <ul style="list-style-type: none"> Accuracy: ±5%FS Load resistance: 10k Ohms MIN.
	6. Motorized valve control output <ul style="list-style-type: none"> Contact structure: 2 SPST contacts without interlock circuit *SPST: Single Pole Single Throw Contact capacity: 250 V AC/30 V DC, 3A (resistive load) Minimum ON/OFF current: 100 mA (24 V DC) Mechanical life: 20 million operations MIN. (100 operations/min) Electrical life: 100,000 operations MIN. (rated load)

Control Parameters

Proportional Band (P)	0.1% to 999.9%
Integration Time (I)	0 to 3200 s (invalidated when I = 0)
Differential Time (D)	0.0 to 999.9 s (invalidated when D = 0)
Control Cycle	100 to 900 ms (in 100 ms), 1 to 99 s (in seconds)
Anti-reset Windup	0 to 100% of measurement range
Hysteresis Band	50% of measurement range (at 2-position control only)
Number of SV and PID Patterns	8: Changed by any of parameter setting, digital input, communication, user function keying, zone change.

Control Mode

Mode	Auto/Manual/Remote (During 2-position control in Manual mode, 2-position manual operation with MV = 100% or 0% is operated.)
Mode Changeover:	<ul style="list-style-type: none"> Auto ←→ Manual: Balanceless . bumpless Auto/Manual → Remote: Balance . bumpless Auto/Manual ← Remote: Balance . bumpless

Alarm

Number of Alarm	Up to 5 (depends on the number of DO)
Alarm Type	Process value (upper limit/lower limit, absolute/deviation, range), main unit error, etc.(non-excitation, delay, latch, timer function option provided)
Heater Current Alarm Function (option)	Current transformer (CT) is to be prepared separately (see page 10.)
Detectable Range	1 A to 100 A
Detected Current Resolution	0.1A
Setting Resolution	0.1A
Hysteresis	0.0 to 100.0 A

Current Transformer (CT) Input (option)

Input type	Single phase CT, 1 point For 1 A to 30 A: CTL-6-S-H For 20 A to 100 A: CTL-12-S36-8
Range of Detected Current	1 A to 100A
Detected Current Accuracy	Setpoint ±5%FS
Detected Current Resolution	0.1A
ON Time Necessary for Detection	300 ms MIN.

Display and Keys

Type	LCD (with backlight)
Indication Contents	Process value indication: 11-segment, 4-digit [white] Setpoint indication: 11-segment, 4-digit [green] Screen No. indication: 7-segment, 4-digit [orange] Status indication: 42 indicator lamps
Luminance Setting	possible (4 steps)
Additional Function	Scaling function

Customizable Function and Program (ramp/soak) Function

Number of Program Steps:	64 steps × 1 pattern, 32 steps × 2 patterns, 16 steps × 4 patterns, or 8 steps × 8 patterns (1 step = 2 segments)
Control Option	Control by digital input Status output by digital output
Basic Functions	1. Segment time can be set in "Hour, Minutes" or "Minutes, Seconds" 2. Guarantee soak 3. Repeat action 4. PV start 5. Delay start 6. Power restoring function
Memory Backup	EEPROM

Operation and Storage Conditions

Operating Temperature	-10°C to 50°C
Storage Temperature	-20°C to 60°C
Operating/Storage Humidity	90%RH or less (Non condensation)

Enclosure

Installation	Panel mount
External Terminals	Screw terminals, M3
Case	<ul style="list-style-type: none"> Material: ABS, PPO Non-combustibility grade: UL94V-0 equivalent Color: Black
Protection Structure	<ul style="list-style-type: none"> Panel front side: IP66, NEMA-4X equivalent (When the panel is mounted using our genuine packing. Not water-proof if mounted closely together.) Body: IP20 equivalent (slits on top and bottom) Terminals: IP00 equivalent. Terminal cover can be mounted optionally.
Weight	PXF4: approx. 100 g, PXF5: approx. 170 g, PXF9: approx. 220 g



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