

Products

1.) PID Temp Controller TAIE FY Series FY400 , FY600 , FY700 , FY800, FY900



FY800



FY900



FY400



FY600



FY700

TAIE Digital Controller
FY400/600/700/800/900

[Data Sheet](#)

8 Specifications

Standard Spec.

Model	FY400	FY600	FY700	FY800	FY900
Dimension	48X48mm	96X48mm	72X72mm	48X96mm	96X96mm
Supply voltage	AC 85~265V, DC24V (Optional)				
Frequency	50/60 HZ				
Power Consumption	approx 3VA	approx 4VA	approx 3VA	approx 4VA	approx 4VA
Memory	Non-volatile memory E ² PROM				
Input	Measurement input. Sample time : 250ms, 0.2% of FS				
	TC	K, J, R, S, B, E, N, T, W, PL2, U, L			
	RTD	PT100, JPT100, JPT50			
	mA dc	4~20mA, 0~20mA			
	Voltage dc	0~1V, 0~5V, 0~10V, 1~5V, 2~10V, -10~10mV, 0~10mV, 0~20mV, 0~50mV, 10~50mV			
DP Position	0000, 000.0, 00.00, 0.000 (available for mA or Voltage dc input)				
Output 1	Main control output				
	Relay	SPST type	SPDT type	SPDT type	SPDT type
		3A, 220V, electrical life : 100,000 times or more(under the rated load).			
	Voltage Pulse	For SSR drive. ON:24V, OFF:0V, maximum load current:20mA.			
	mA dc	4~20mA, 0~20mA. Maximum load resistance:560 Ω			
Voltage dc	0~5V, 0~10V, 1~5V, 2~10V. Maximum load current:20mA.				
Alarm 1	SPST type	SPDT type	SPST type	SPDT type	SPDT type
	A, 220V, electrical life : 100,000 times or more(under the rated load).				
Control algorithms	PID, P, PI, PD, ON/OFF(P=0), FUZZY				
PID range	P:0~200%, I:0~3600 Secs, D:0~900 Secs				
Isolation	Output terminal (control output, alarm, transmission) and Input terminal are isolated separately.				
Isolated resistance	10M Ω or more between input terminals and case(ground) at DC 500V, 10M Ω or more between output terminals and case(ground) at DC 500V				
Dielectric strength	1000V AC for 1 minute between input terminals and case(ground), 1500V AC for 1 minute between output terminals and case(ground)				
Operating temperature	0~50°C				
Humidity range	20~90% RH				
Weight	FY400 approx 150g, FY600/700/800 approx 225g, FY900 approx 300g.				
Display Height	PV:7mm SV:7mm	PV:7mm SV:7mm	PV:14mm SV:10mm	PV:7mm SV:7mm	PV:14mm SV:10mm

Optional Spec.

Model	FY400	FY600	FY700	FY800	FY900
Programmable RAMP/SOAK	2 Patterns with 8 segments each. The 2 patterns can be linked together as 16 segments use.				
Output 2	For heating and cooling control use. Relay, SSR, 4~20mA, 0~20mA, 0~5V, 0~10V, 1~5V, 2~10V				
Alarm 2	SPST type	SPDT type	SPDT type	SPDT type	SPDT type
	3A, 220V, electrical life : 100,000 times or more(under the rated load).				
Alarm 3	Not available	Available	Available	Available	Available
		SPST type	SPST type	SPST type	SPST type
	3A, 220V, electrical life : 100,000 times or more(under the rated load).				
Heater Break Alarm (HBA)	Display range of heater current : 0.0~99.9A, Accuracy : 1%FS Included CT : SC-80-T(5.8mm dia, 0.0~80.0A) or SC-100-T(12mm dia, 0.0~99.9A) Alarm relay : AL1				
Transmission	Available for PV or SV transmission 4~20mA, 0~20mA, 0~1V, 0~5V, 0~10V, 1~5V, 2~10V				
Remote SV Input	4~20mA, 0~20mA, 0~1V, 0~5V, 0~10V, 1~5V, 2~10V				
Communication	Protocol : MODBUS RTU, MODBUS ASCII, TAIE RS232, RS485, TTL Baud rate: 2400, 4800, 9600, 19200, 38400 bps Data bits : 8, Stop bit : 1 or 2bit, Odd or Even parity.				
WaterProof/DustProof	IP65				