



FPX-C38AT Programmable Controller *control logic*

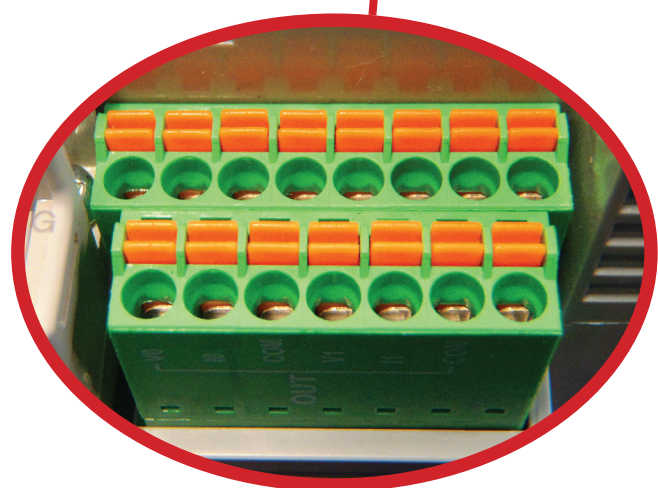
NEW Model with Onboard Analog I/O

- Operation speed: 320 ns
- Maximum I/O points: 278 points
- Program capacity: 32 k steps
- Tool port: USB
- Ethernet
- Add-on cassette x 3
- Transistor output: 0.5 A

Panasonic
ideas for life



- 24 Digital Inputs, 14 NPN Transistor Outputs,
- 4 Individually configurable Analog Input Channels
- 2 Individually configurable Analog Output Channels
- Abundant program capacity: 32 k steps
- Equipped with an independent comment memory
- 8CH (Single Phase) High Speed Counter Inputs
- 4CH Pulse/PWM outputs
- Inbuilt Real Time Clock
- USB Programming Port
- Utilises all other existing expansion options for the FPX range

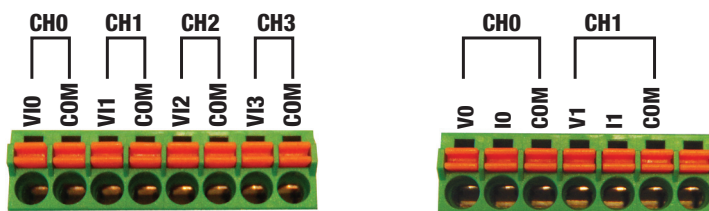


Programmable Controller



FPX-C38AT Programmable Controller *control logic*

Item		NEW C38AT	C14	C30	C60	
Number of controllable I/O points	Control unit	Relay output Type	N/A	DC input: 8 points, relay output: 6 points	DC input: 16 points, relay output: 14 points	DC input: 32 points, relay output: 28 points
		Transistor output Type	DC input: 24 points, transistor output : 14 points	DC input: 8 points, transistor output : 6 points	DC input: 16 points, transistor output : 14 points	DC input: 32 points, transistor output : 28 points
		Analog I/O	4 input Ch. / 2 output Ch.	N/A		
	Maximum I/O points when expanded	Max. 278 points	254 points (Max. 366 points when using add-on cassettes and FP0R expansion units)	270 points (Max. 352 points when using add-on cassettes and FP0R expansion units)	300 points (Max. 382 points when using add-on cassettes and FP0R expansion units)	
Programming method / Control method		Relay symbol / Cyclic operation				
Program memory		Built-in flash ROM (no backup battery required)				
Program capacity		32 k steps	16 k steps	32 k steps	32 k steps	
Number of instructions	Basic instructions	111 types	89 types			
	High-level instructions	226 types				
Operation speed		Basic instruction: 0.32 μ s min. / step				
I/O refresh + base time		0.2 ms [When using FP0R expansion units: 1 ms + (1.5 \times Number of expansion units) ms]				
Operation memory	Relay	External inputs (X)	1,760 points (The actual usable number of points is restricted by the hardware.)			
		External outputs (Y)	1,760 points (The actual usable number of points is restricted by the hardware.)			
		Internal relay (R)	4,096 points (R0 to R255F)			
		Special internal relay (R)	192 points			
		Timer / Counter (T / C)	1,024 points: timer capable of counting (units: 1 ms, 10 ms, 100 ms or 1 sec) \times 32,767, Counter capable of counting 1 to 32,767			
	Memory area	Link relay (I)	2048 points			
		Data register (DT)	32,765 words (DT0 to DT32764)	12,285 words (DT0 to DT12284)	32,765 words (DT0 to DT32764)	
		Special data register (DT)	384 words	374 words		
		Link data register (LD)	256 words			
		Index register (I)	14 words			
High-speed counter		Built-in (transistor output): Single-phase 8 channels (50 kHz \times 4 channels + 10 kHz \times 4 channels) Built-in (relay output): Single-phase 8 channels (10 kHz \times 8 channels) Pulse I/O cassette: Single-phase 2 channels (80 kHz \times 2 channels)				
Pulse output / PWM output		Built-in (transistor output): 100 kHz \times 2 channels + 20 kHz \times 2 channels Pulse I/O cassette: One unit (one axis) 100 kHz, or two units (two axes) 80 kHz				
Time measurement		10 μ s, ring counter				
Potentiometer (volume) input		2 points (K0 to K1000)			4 points (K0 to K1000)	
Constant scan		Possible				
Real-time clock		Inbuilt	When AFPX-MRTC is attached: Year (last two digits), month, day, hours (24-hour display), minutes, seconds, day of week (However, operates only when a battery is installed.)			
Flash ROM backup	Backup by instruction P13	Data register (32,765 words)				
	Auto-backup at power failure	Counter 16 points (1,008 to 1,023), Internal relay 128 points (R2480 to R255F), Data register 55 words (C30/C60: 32,710 to 32,764, C14: 12,230 to 12,284)				
Battery backup		The memory allocated in the storage area by the system register (However, only when a battery is installed)				



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