

Pocket-size ultra-compact controller for use in extremely narrow spaces



SPECIFICATIONS

Performance specifications

Item			C10	C14	C16	C32	T32	F32
			(Relay output type only)	(Relay output type only)		(Transistor output type only)	(Transistor output type only)	(Transistor output type only)
Programming method / Control method			Relay symbol / Cyclic operation					
Number of controllable I/O points	Control unit only (No expansion)) 10 points (Input: 6, Output: 4)	14 points (Input: 8, Output: 6)	16 point (Input: 8, Output: 8)	32 points (Input: 16, Output: 16)	32 points (Input: 16, Output: 16)	
	W/expansion 1 * Same type of control and expansion units		Max. 58 points	Max. 62 points	Max. 112 points	Max. 128 points	Max. 128 points	
	W/expansion 2 * Mix type of relay and transistor units		Max. 106 points	Max. 110 points	Max. 112 points	Max. 128 points	Max. 128 points	
Program	memo	ory	Built-in flash EEPROM (no backup battery required)					
Program capacity			16,000 steps 32,000 steps					
Number of Basic instructions			110 types approx.					
instructio	ons	High-level instructions	210 types approx.					
Operation		Up to 3,000 steps	Basic instructions: 0.08 µs min., Timer instructions: 2.2 µs min., High-level instructions: 0.32 µs min. (MV instruction)					
speed	3,001st and later steps		Basic instructions: 0.58 µs min., Timer instructions: 3.66 µs min., High-level instructions: 1.62 µs min. (MV instruction)					
Operation	Relay	Internal relay (R)	4,096 points					
	riciay	Timer / Counter (T / C)	1,024 points					
	Memory	Data register (DT)		12,315 words			32,765 words	
	area Index register (IX, IY)		14 words (I0 to ID)					
Master control relay (MCR)			256 points					
Number of labels (JMP and LOOP)			256 points					
Differential points			Equivalent to the program capacity					
Number			1,000 stages					
Number of subroutines			500 subroutines					
	<u> </u>	peed counter	Single-phase 6 channels (Max. 50 kHz each) or 2-phase 3 channels (Max. 15 kHz each) (Note)					
	Pulse of		Not available 4 channels (Max. 50 kHz each) Two channels can be controlled in				d individually. (Note)	
s	PWM output		Not available 4 channels (6 Hz to 4.8 kHz)					
L io	Pulse catch input / interrupt input		Total 8 channels (with high speed counter)					
	Interrupt program		Input: 8 programs (6 programs for C10 only) / Periodic: 1 program / Pulse match: 4 programs					
3		ical interrupt	In units of 0.5 ms to 1.5 sec. / In units of 10 ms: 10 ms to 30 sec					
Spec	Constant scan		In units of 0.5 ms to 600 ms					
	RS232C port		One RS232C port is mounted on each of C10CRS, C10CRM, C14CRS, C14CRM, C16CT, C16CP, C32CT, C32CP, T32CT, T32CP, F32CT and F32CP type (3P terminal block) Transmission speed (Baud rate): 2,400 to 115,200 bps, Transmission distance: 15 m 49.2 ft, Communication method: half duplex					
	RS485 port		One RS485 port is mounted on each of C10MRS, C14MRS, C16MT, C16MP, C32MT, C32MP, T32MT, T32MP, F32MT and F32MP type (3P terminal block) Transmission speed (Baud rate): 115.2 kbps (It is possible to change to 19.2 kbps by the setting.), Transmission distance: 1,200 m 3937.0 ft, Communication method: half duplex					
	o Pro	ogram and system registe	Stored program and system register in flash EEPROM					
	packup		Stored fixed area in flash EEPROM Backup of the entire area by					
	>	Operation memory	Counter: 16 points			Backup of the entire area by a	FeRAM (without	
			Internal relay: 128 points built-in secondary the need for a					
	Β			Data registe	r: 315 words		battery	battery)
<u>.</u>	Self-diagnostic function		Watchdog timer (690 ms approx.), program syntax check					
Mai	Self-dia	agriostic function						
		me clock function			vailable	,, pg	Available	Not available

Note: For the limitations while operating units, see the manual.