



FT1A Series Smart AXIS - 24 I/O

Key Features

- Available in 100-240 VAC and 24 VDC power
- Available with/without embedded LCD
- 10 Amp Relay contacts
- USB Mini-B Programming Port
- Embedded 4-pt analog inputs (0-10VDC, 10-bit, DC power)
- Integrated 4 x 100KHz high-speed counter
- Embedded Ethernet port
- Supports Modbus TCP and RTU
- Optional RS232C/RS485 adapter

General Specifications



Part Numbers	FT1A-H24RA	FT1A-B24RA	FT1A-H24RC	FT1A-B24RC	
Appearance					
LCD Screen	Yes	N/A	Yes	N/A	
Operating Temperature	0 to +55°C (operating ambient temperature)				
Storage Temperature	-25 to +70°C (no freezing)				
Rated Power Voltage	24V DC		100 to 240V AC		
Allowable Voltage Range	20.4 to 28.8V DC (Including ripple voltage)		85 to 264V AC		
Rated Power Frequency	-		50/60Hz (47 to 63Hz)		
Maximum Power Consumption	4.8W		41VA		
Weight	Approx. 310g		Approx. 400g		



Function Specifications

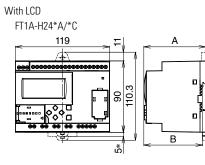
Part Numbers		FT1A-H24RA, B24RA	FT1A-H24RC, B24RC	
Program Capacity Note 1		47,400 bytes (11,850 steps)		
	Points	16		
Input	Digital Input (Terminal No.)	12 (I0 to I7, I10 to I13)	16 (IO to I7, I10 to I17)	
	Shared Analog Input (Terminal No.)	4 (I14 to I17)	-	
	Output Points	8		
	10A Relay Output (Terminal No.)	4 (Q0 to Q3)		
	2A Relay Output (Terminal No.)	4 (Q4 to Q7)		
	Transistor Output (Terminal No.)	-		
User Program Storage		Flash ROM (10,000 rewriting life)		
Backup Function	RAM	Backup data: Internal relay, shift register, counter current value, data register Note 2, clock data (year, month, and day)		
	Backup Duration	Approx. 30 days (typical) at 25°C after backup battery fully charge		
	Battery	Lithium		
	Charging Time	Approx. 15 hours for charging from 0% to 90% of full charge		
	Battery Life	5 years		
	Replaceability	Not possible		
Clock Function Note 3		Clock accuracy: ±30 sec/month (typical) at 25°C		
Control System		Stored program system		

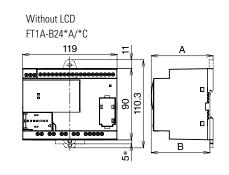
Specifications con't

Part Numbers		FT1A-H24RA, B24RA	FT1A-H24RC, B24RC		
Instruction Mordo	Basic Instructions	42			
Instruction Words	Advanced Instructions	107			
Deservation Time	Basic Instruction	0.95ms (1000 steps)			
Processing Time	END Processing	640µs			
Internal Relay		1024			
Shift Register		128			
Data Register		2,000			
Counter (adding, reversible)		200			
Timer (1-sec, 100ms,10ms, 1m	s)	20	200		
Input Filter		Without filter, 3 to 15ms (selectable in increments of 1ms)			
Catch Input/Interrupt Input	Input Points	6			
Self-diagnostic Function		Keep data, Power failure, Clock error, Watchdog timer, Timer/counter preset value change error, User program syntax, User program execution, System error, Memory cartridge transfer error			
	Points	Total 6 points	_		
High-speed Counter	Maximum Counter Frequency	Single/two-phase selectable: 100kHz (2 points) , Single-phase: 100kHz (4 points)			
nigh-speed counter	Counting Range	0 to 4,294,967,295 (32 bit)			
	Operation Mode	Rotary encoder mode and adding counter mode			
Pulse Output (Maximum frequency: 100kHz)	Points	_			
Pulse Output (Maximum frequency: 5kHz)	Points	-			
	Points (Terminal No.)	4 (l14 to l17) –			
Analog Voltage Input	Input voltage Range	0 to 10V DC			
	Digital Resolution	0 to 1000			
USB Port	Points	1			
	USB Standard	USB 2.0			
	Connector	Mini-B type			
Expansion Communication Ports		1			
Ethernet Port		1			
Memory Cartridge Connectors		1			
SD Memory Card Slots		_			

Step is equivalent to 4 bytes.
Among data registers D0 to D1999, only D0 to D999 are backed up.
Set the calendar/clock using the clock function in WindLDR.

Dimensions (mm)





Dimension Table

	Α	В
FT1A-H24RA	60	56
FT1A-B24RA	60	56
FT1A-H24RC	78	74
FT1A-B24RC	78	74

Mounting Hole Layout

