

Programmable Logic Controller

# MLI Economic/Standard Unit

## All-In-One PLC With Next Generation Technology

ML50 is a competitive micro PLC that offers the best automation at low cost. With its high performance and functionality, it can support from simple control to complex task. Strengthening its communication functions, ML50 offers user-oriented integrated control. Based on its strengths, it can be used in many fields of applications.



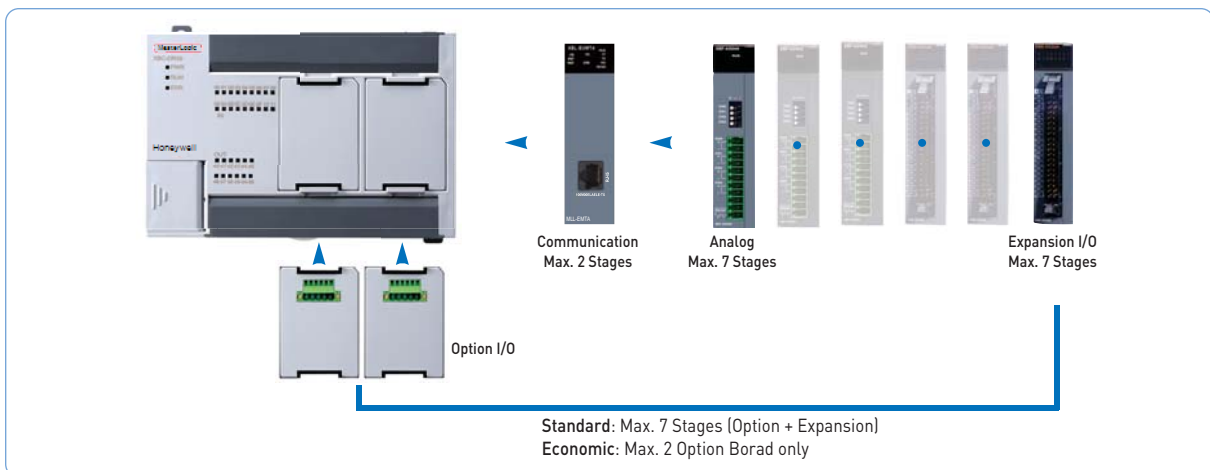
### Economic

- 240ns/step processing speed and floating point arithmetic with on board CPU
- Max. 2 Option modules, Max. 38 I/O points control
- Max. 2 CHs Communication with built-in functions



### Standard

- 94ns/step processing speed and floating point arithmetic with board CPU
- Max. 7 Expansion modules, Max. 2 Option modules, Max. 284 I/O points control
- Max. 5 CHs Communication with built-in functions and expansion modules



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## Specification

- Control method: Repetitive, Cyclic, Interrupt, Constant Scan
- I/O control mode: Refresh mode[Batch processing by scan synchronization], Direct mode by instruction
- Programming language: Ladder diagram, Instruction list
- Number of program: 128 • Program port: RS-232C • RTC, Battery: Option
- Self diagnosis: Operation delay monitoring, Memory error, I/O error, etc
- Data retention at power failure: Latch range setting at basic parameter
- Rated voltage: AC100~240V

## Economic

Item	MLI-DR10E	MLI-DR14E	MLI-DR20E	MLI-DR30E
Input/Output type	DC24V input, Relay output			
Processing speed	240ns/step			
Program capacity	4Ksteps			
Max. I/O points	14	18	28	38
Main unit I/O points	10 (Input:6, Output:4)	14 (Input:8, Output:6)	20 (Input:12, Output:8)	30 (Input:18, Output:12)
Expansion I/O	No available			
Option I/O	1	1	2	2
Operation mode	RUN, STOP			
Built-in function	RS-232C/485(1CH), Pulse catch, Input filter, External interrupt, High speed counter**			
Internal current consumption	250mA	315mA	355mA	485mA
Weight	330g	340g	450g	465g

## Standard

Item	MLI-DR20SU	MLI-DR30SU	MLI-DR40SU	MLI-DR60SU
	MLI-DN20SU	MLI-DN30SU	MLI-DN40SU	MLI-DN60SU
Input/Output type	MLI-DRxxSU : DC24V input, Relay output MLI-DNxxSU : DC24V input, Transistor(SINK) output			
Processing speed	94ns/step			
Program capacity	15Ksteps			
Max. I/O points	244	254	264	284
Main unit I/O points	20 (Input:12, Output:8)	30 (Input:18, Output:12)	40 (Input:24, Output:16)	60 (Input:36, Output:24)
Expansion I/O	7			
Option I/O	2			
Operation mode	RUN, STOP, DEBUG			
Built-in function	RS-232C/485(2CHs), PID control, Pulse catch, Input filter, External interrupt, High speed counter, Positioning**			
Internal current consumption	- 240mA	- 255mA	-	-
Weight	- 470g	- 475g	-	-

## Option I/O

MLO-M1KB	Memory	MLO-AD02A	Voltage/Current, Input 2 CHs
MLO-RTCA	RTC(Real Time Clock), Battery	MLO-DA02A	Voltage/Current, Output 2 CHs
MLO-DC04A	DC 24V, Input 4 points	MLO-AH02A	Voltage/Current, Input 1 CH
MLO-TN04A	Transistor(Sink), Output 4 points	MLO-TC02A	Voltage/Current, Output 1 CH
MLO-RD02A	RTD(Resistance Temperature Detect), Input 2 CHs		TC(Thermocouple), Input 2 CHs

\* Some products are due in market soon.

\*\* MLO-DC04A and MLO-TN04A are required to use High speed counter and Positioning functions, respectively. (Positioning function is available in standard type only)

## HEAD OFFICE



Safety Instructions

- For your safety, please read user's manual thoroughly before operating.
- Contact the nearest authorized service facility for examination, repair, or adjustment.
- Please contact qualified service technician when you need maintenance. Do not disassemble or repair by yourself!
- Any maintenance and inspection shall be performed by the personnel having expertise concerned.

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