

ML50 Compact Logic Controller



AUTOMATION
MADE EASY & COMPACT

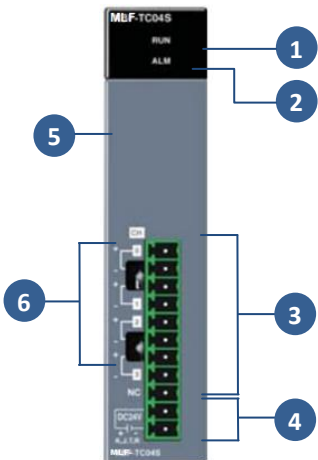
Honeywell Solutions for
Machine Automation



Honeywell

Expansion

TC input I

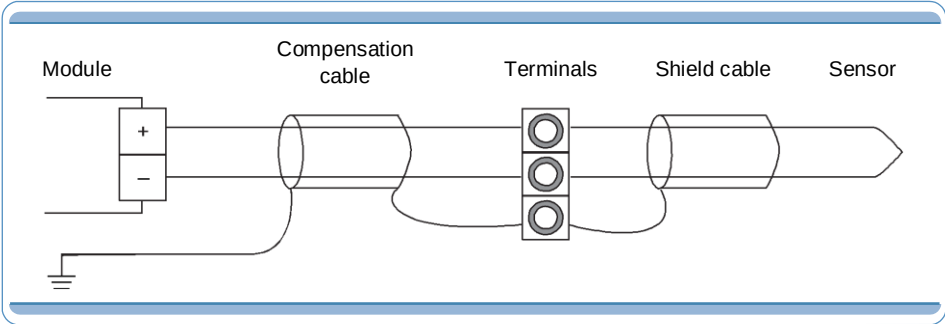


Specification		Model	TC(Thermo-couple) input MLF-TC04S
Number of channels			4
Sensor type			Thermo-couple, K/J/T/R JISC 1602-1995
Temperature range	K		-200 ~ 1300°C (- 328.0°F ~ 2372.0°F)
	J		-200 ~ 1200°C (- 328.0°F ~ 2192.0°F)
	T		-200 ~ 400°C (- 328.0°F ~ 752.0°F)
	R		0.0 ~ 1700°C (32.0°F ~ 3092.0°F)
Digital output	Temperature Display unit		Display down to one decimal place K, J, T : 0.1°C, R : 0.5°C)
	Scaling display (defined by user)		Unsigned Scaling (0 ~ 65536)
			Signed Scaling (-32768 ~ 32767)
Accuracy	Normal 25°C		±0.2% or less
	Temperature coefficient (0 ~ 55°C)		±100 ppm / °C
Conversion speed			50ms / Ch
Cold junction compensation	Compensation Method		Auto-compensated by RJC sensor (Thermistor)
	Accuracy		±1.0 °C
Warming-up time			15 minutes or more
Current consumption	DC 5V		100mA
	DC 24V		100mA
Insulation	Between Channels		Photo-MOS relay insulation
	Between terminal and internal circuit		Photo-coupler insulation
	Between terminal and power supply		DC-DC converter insulation
Withstand voltage			400Vac, 50/60Hz for 1min., leakage current 10mA or less
Insulation resistance			10MΩ over at 500Vdc Megger
Connection terminal			11 points terminal
Occupied I/O points			Fixed type : 64 points
Weight			

For MLF-TC04S, MLM series shall be V1.8 or later. Except MLC, MLI series.

Name of parts

No	Name	Descriptions
1	RUN LED	► Indicates condition of modules • LED ON : Normal Condition • LED ON and OFF : Flickering • LED Off : Power Off or Module malfunction
2	ALM LED	► Displays the status of the channels (Light fault) • Flickering : Line disconnection(Burn-out) flickering ever 1sec • LED OFF : Normal status
3	Terminal Block	► 3-wire RTD sensor can be connected
4	External power terminal	► External DC24V input
5	Expansion Connector	► Connects the module with an expansion module
6	RJC	► Device for Cold Junction Compensation(Sensor)





Product List

Item	Model	Descriptions
Expansion I/O module	MLE-DC08A	8-point DC24V input
	MLE-DC16A	16-point DC24V input
	MLE-DC32A	32-point DC24V input
	MLE-RY08A	8-point Relay output
	MLE-RY16A	16-point Relay output
	MLE-TN08A	8-point TR(SINK) output
	MLE-TN16A	16-point TR(SINK) output
	MLE-TN32A	32-point TR(SINK) output
	MLE-DR16A	8-point DC24V input, 8-point Relay output
	MLE-TP08A	8-point Transistor (source) output
	MLE-TP16A	16-point Transistor (source) output
	MLE-TP32A	32-point Transistor (source) output
Special module (Analog IO)	MLF-AD04A	4-channel Analog input (Current/Voltage)
	MLF-AD04C	4-channel Analog input (Current/Voltage, resolution : 1/16000)
	MLF-AH04A	2-ch Analog input (Current/Voltage), 2-ch Analog output (Current/Voltage)
	MLF-DV04A	4-channel Analog output (Voltage)
	MLF-DC04A	4-channel Analog output (Current)
	MLF-RD04A	4-channel RTD input
	MLF-TC04S	4-channel Thermo-couple input(Isolation)
	MLF-AD08A	8-channel Analog input (Current/Voltage)
Communication module	MLL-C41A	Snet(RS422/485), 1channel
	MLL-C21A	Snet(RS232C), 1channel
	MLL-EMTA	Fast Ethernet (100Mbps), 1ch
	MLL-EIPT	Ethernet/IP, 2channel
	MLL-CMEA	CANopen(max 1000kbps , Num of PDO : 32)
	MLL-CSEA	CANopen(max 1000kbps , Num of PDO : 64)
	PMC-310S	Configuring Cable serial, PC(9pin)-PLC(6pin)
	USB-301A	Configuring Cable, USB
	TG7-1H40S	Smart Link Terminal Board 40P
Option Boards for "SU", "E"	MLO-AD02A	2-channel Analog input (Current/Voltage)
	MLO-DA02A	2-channel Analog output
	MLO-AH02A	1-ch Analog input(I/V), 1ch Analog output(I/V)
	MLO-TC02A	2-channel Thermo-couple input(non-isolation)
	MLO-RD01A	1-channel RTD input
	MLL-RTCA	RTC, BAT for back-up