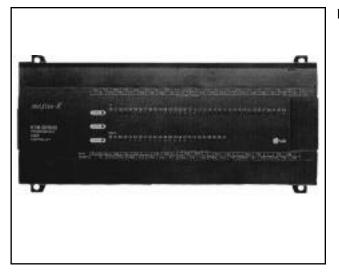
MASTER-K80S





FEATURES

- Compact size and high function type
 - -Base: 10, 20, 30, 40, 60 I/O
 - -Expansion: 10 I/O
 - •Various built-in function for applications
 - -One high speed counter (1 phase 16kHz,
- 2 phase 8kHz)
- -One pulse train output (2kHz)
- -Eight PID Control loops with Auto Tuning
- -Eight Pulse catch inputs
- -One RS-232C I/F (dedicated, user
- defined, modbus Protocol)
- Various special function modules
- -Analogue I/Os, Cnet I/F, Analogue timer
- RTC Pack, Memory pack (option)
- On-line editing

Items			Specifications			
Program Control Method			Cyclic Operation of stored program, Interrupt task operation			
I/0 Updating Method			Refresh Method, Direct I/O method			
Program Languages			Mnemonic, Ladder diagram			
No. of			30			
Instructions	5	Application	218			
		g Speed	0.5µs/Step			
Pi		Capacity	7K Steps			
	I/	O Area (P)	P0000~P015F			
	Au	ux. Area (M)	M0000~M191F			
	Ke	eep Area (K)	K0000~K031F			
Data	Li	ink Area (L)	L0000~L063F			
Memory	Spe	ecial Area (F)	F0000~F063F			
Wentery		Timer (T)	100ms: T000~T191 / 10ms: T192~T255			
		Counter (C)	C000~C255			
	Step Control Area (S)		S00.00~S99.99			
	Data Registration (D)		D0000~D4999			
	PID Control		Controlled by instruction, auto tuning, forward/reverse, forced output, operation scan time setup			
	Cnet I/F	Function (RS-232C)	Dedicated protocol, MODBUS protocol, user-defined protocol			
Built-in		Counting Speed	1 Phase: 16kHz (1 channel)			
Special Function	Llink		2 Phase: 8kHz (1 channel) 3 counting modes			
Function	High Speed		1 Phase, up/down count with program input			
	counter		1 Phase, up/down count with B phase input 2 Phase, up/down count with phase difference			
		M. Rolling Co.				
	Multiplication		select one of 1, 2, or 4			
	Pulse Catch		Pulse width: 0.3ms, 8 Points			
	Pulse Output		1x2kHz (transistor output only)			
	External Interrupt		8 points, 0.3ms			
		Input Filter	0~15ms			

SYSTEM CONFIGURATION

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K7M-DR10S(/DC)	K7M-DR20S(/DC)	K7M-DR30S(/DC)	K7M-DR40S(/DC)	K7M-DR60S(/DC)	G7E-DR10A	
K7M-DT10S	K7M-DT20S	K7M-DT30S	K7M-DT40S	K7M-DT60S	-	
6	12	18	24	36	6	
Photo coupler						
		DC12~24V				
DC12V 4.5mA, DC24V 9mA						
DC10.2-28.8V (Ripple : 5% or less)						
100% Simultaneously on						
t 100% Simultaneously on More than DC9.5V/4.3mA			.3mA			
Less than DC5V/1.5mA						
	Abo	ut 2.7 KW (P000-F	2002 : 1.5KW			
1~15ms						
1~15ms						
LED						
	K7M-DT10S	K7M-DT10S K7M-DT20S 6 12 C DC 1 M	K7M-DT10S K7M-DT20S K7M-DT30S 6 12 18 Photo coupler DC12~24V DC12~24V DC12~24V DC12.28.8V (Ripple 100% Simultaneous 100% Simultaneous More than DC9.5V/4 Less than DC5V/1.3 About 2.7 KW (P000-F 1~15ms 1~15ms	K7M-DT10S K7M-DT20S K7M-DT30S K7M-DT40S 6 12 18 24 Photo coupler DC12~24V DC12~24V DC10.2-28.8V (Ripple : 5% or less) 100% Simultaneously on More than DC9.5V/4.3mA Less than DC5V/1.5mA About 2.7 KW (P000-P002 : 1.5KW 1~15ms 1~15ms 1~15ms	6 12 18 24 36 Photo coupler DC12~24V DC12~24V DC12V 4.5mA, DC24V 9mA DC10.2-28.8V (Ripple : 5% or less) 100% Simultaneously on More than DC9.5V/4.3mA Less than DC5V/1.5mA About 2.7 KW (P000-P002 : 1.5KW 1~15ms 1~15ms 1~15ms	

OUTPUT (RELAY)

Туре		K7M-DR1OS(/DC)	K7M-DR2OS(/DC)	K7M-DR3OS(/DC)	K7M-DR4OS(/DC)	K7M-DR60S(/DC)	G7E-R10A		
Output Point		4	8	12	16	24	4		
Switching D	evice	Relay							
Insulation D	evice	Relay							
Rated Load	Voltage	Γ	DC24V/2A (Resistive load), AC220V/2A (COSø=1) 1 Point						
/Currer	nt		2A/1 Point/com	n, 4A/2 Points/com,	4A/4 Points/com				
Minimum In	put			DC5V/ 1mA					
Mix. Load V	oltage	AC250V DC110V							
Mix. Switchi	ing Frequency	1,200 Times/hour							
Surge Killer		None							
	Mechanical	Over 20 million operations							
Relay	Electrical		0	ver 100,000 operati	ions				
	Off - On			Within 10ms					
time	On - Off	Within 12ms							
Operation Indicator		LED							
External Wiring			Termi	nal block (M3 x 6So	crew)				

OUTPUT (TRANSISTOR)

Item Type	K7M-DT10S	K7M-DT20S	K7M-DT30S	K7M-DT40S	K7M-DT60S	
Output Point	4	8	12	16	24	
Rated Operating Voltage	DC 12/24					
Rated Operating Current	0.5A/1Point, 3A/1com					
Response Off - On		Less than 2ms				
time On - Off	Less than 2ms					
Common Method	8 Points/1com, Sink type					
Operation Indicator	LED					
Insulation Device	Photo coupler					
Surge Killer	Clamp diode					
internal Power~ Consumption	170mA					

SYSTEM CONFIGURATION

Base Unit	Expansion unit	Available System	
Processin speed: 0.5µs	Digital I/Output: DC 6 points/relay 4 point	Digital 1/Output: 2 modules	
Program capacity: 7k steps	Analogue I/0: Input 2ch, Output 1ch	Analogue I/O: 2 modules Max. 3	
Туре:	Analogue timer: 4 points	Analogue timer: 3 modules modules	
K7M-DR10S K7M-DR10S/DC K7M-DT10S	Cnet I/F for RS-422/RS-232C (for modem)	Cnet I/F: 1 module	
K7M-DR20S K7M-DR20S/DC K7M-DT20S	Fnet (master)		
K7M-DR30S K7M-DR30S/DC K7M-DT30S	DevicNet (slave)	Ontion Dool	
K7M-DR40S K7M-DR40S/DC K7M-DT40S	Profibus (slave)	Option Pack	
K7M-DR60S K7M-DR60S/DC K7M-DT60S		RTC (Real Time Clock) Pack Memory pack (For program back-up)	



OPTION MODULE

	Itoms			Specification		
Analogue I/O Module	Items Analog Input		Voltage	Voltage DC0~ 10V		
(G7F-ADHA)		Analog input	Current	DC0~20mA or 4~20mA		
		Digital Output Baselution	Current			
	A/D	Digital Output Resolution		12bit (0~4,000)		
	Part	Voltage/Current Selection		Selected by dip switch - Short V and 1 terminal for current Input		
0		Analog Input Channels		2 channels/module		
10210000000		Absolute Maximum Input	Voltage	DC-0.5V, +12V		
CONTRACTOR OF			Current	DC-2mA, +25mA		
Contract of the local distribution of the lo		Digital Output Resolution		12bit (0~4,000)		
an 10		Analog Output	Voltage	DC0~20mA (load impedance 2KW~-1 MW)		
************************************	D/A		Current	DC0~20mA (load impedance 560 W or less)		
	Part	Voltage/Current Selection		Separated terminal		
		Analog Input Channels		1 channels/module		
		Absolute Maximum Input	Voltage	DC+15V		
			Current	DC+24mA		
		Max. Resolution	DC0-1 O\	2.5mV (1/4,000)		
			DC0-20m			
	Accui	acv		+0.5% or less (Full scale)		
		ersion Time		Scan time+I.5ms/channels		
		ation Device	Photo	coupler between input terminal and ground (No insulation between channels)		
		nal Wiring	1 11010	14 point terminal block		
		r Supply		DC24V, 80mA		
		nt Consumption		DC5V, 10mA		
			235g			
	Weight		2009			
	- 3			5		
Analogue Potentiometer	- 3	Items				
Potentiometer Module	_ 3	Items		Specification		
Potentiometer Module (G7F-AT2A)		Items No. of Timers		Specification 4 Point		
Potentiometer Module (G7F-AT2A) -Four analogue poten- tiometers can be used		Items No. of Timers iigital Output Range		Specification 4 Point (8bit) 0 ~200		
Potentiometer Module (G7F-AT2A) -Four analogue poten- tiometers can be used on the job manually to	D	Items No. of Timers igital Output Range Timers Setting .		Specification 4 Point (8bit) 0 ~200 Set by adjustable volume switch		
Potentiometer Module (G7F-AT2A) -Four analogue poten- tiometers can be used on the job manually to adjust set points such as timer values or other	D	Items No. of Timers bigital Output Range Timers Setting . Accuracy Of Timer		Specification 4 Point (8bit) 0 ~200 Set by adjustable volume switch <u>+</u> 2.0% (Full scale)		
Potentiometer Module (G7F-AT2A) -Four analogue poten- tiometers can be used on the job manually to adjust set points such	D	Items No. of Timers ligital Output Range Timers Setting . Accuracy Of Timer current Consumption		Specification 4 Point (8bit) 0 ~200 Set by adjustable volume switch <u>+</u> 2.0% (Full scale) 50mA		
Potentiometer Module (G7F-AT2A) -Four analogue poten- tiometers can be used on the job manually to adjust set points such as timer values or other variables, without going into PLC program. -Adjustments can be	D	Items No. of Timers bigital Output Range Timers Setting . Accuracy Of Timer		Specification 4 Point (8bit) 0 ~200 Set by adjustable volume switch <u>+</u> 2.0% (Full scale)		
Potentiometer Module (G7F-AT2A) -Four analogue poten- tiometers can be used on the job manually to adjust set points such as timer values or other variables, without going into PLC program. -Adjustments can be made from the front part of the module using		Items No. of Timers ligital Output Range Timers Setting . Accuracy Of Timer current Consumption Weight		Specification 4 Point (8bit) 0 ~200 Set by adjustable volume switch <u>+</u> 2.0% (Full scale) 50mA 180g		
Potentiometer Module (G7F-AT2A) -Four analogue poten- tiometers can be used on the job manually to adjust set points such as timer values or other variables, without going into PLC program. -Adjustments can be made from the front part		Items No. of Timers Pigital Output Range Timers Setting . Accuracy Of Timer Current Consumption Weight Items		Specification 4 Point (8bit) 0 ~200 Set by adjustable volume switch <u>+</u> 2.0% (Full scale) 50mA 180g Specification		
Potentiometer Module (G7F-AT2A) -Four analogue poten- tiometers can be used on the job manually to adjust set points such as timer values or other variables, without going into PLC program. -Adjustments can be made from the front part of the module using variable resistors.		Items No. of Timers ligital Output Range Timers Setting . Accuracy Of Timer current Consumption Weight Items Interface		Specification 4 Point (8bit) 0 ~200 Set by adjustable volume switch <u>+</u> 2.0% (Full scale) 50mA 180g Specification RS-422, Modem (RS-232C)		
Potentiometer Module (G7F-AT2A) -Four analogue poten- tiometers can be used on the job manually to adjust set points such as timer values or other variables, without going into PLC program. -Adjustments can be made from the front part of the module using variable resistors.	C	Items No. of Timers Digital Output Range Timers Setting . Accuracy Of Timer Current Consumption Weight Items Interface Dedicated Mode	S	Specification 4 Point (8bit) 0 ~200 Set by adjustable volume switch <u>+</u> 2.0% (Full scale) 50mA 180g Specification RS-422, Modem (RS-232C) Supports multidrop/1:1 communication via LG dedicated protocol		
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	Items	Specification					
	Туре	AC Powered	DC Powered				
	Rated Voltage	AC100~240 (Free voltage)	DC12-24V (Free Voltage)				
	Input Voltage Range	AC85-264V	DC10.2~28.8V				
	Frequency	47~63Hz	-				
Input	Inrush Current	30A (When the power turns on)	-				
	Leakage Current	3mA or less (AC	3mA or less (AC264V, 63Hz) -				
	Fuse	250VAC 2A, UL Listed (Slow Blow Type)	250VAC 5A, UL Listed (Slow Blow Type)				
	Dropout Tolerance	20ms or less	20ms or less				
DC 24V	Output Current	0.2A(Isolated from DC5V)	-				
Output	Output Voltage	24V <u>+</u> 10% (21.6~26.4V)	-				
	Ripple Noise	400mVp-p	-				
	Over-Current Voltage	0.22~1.5A	-				

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