

XGB Programmable Logic Controller - DC Power Main Unit



- 160ns/Step processing speed
- Upto 7 expansion modules
- Up to 480* I/O point control
- PLC systems for Small and Medium Applications
- Communication Port (RS 232C/RS 485)
- Floating-point arithmetic with on-board CPU
- Free Configuration Software XG5000/XG - PD
- Network Configuration via Ethernet and Cnet I/F
- High-speed counter, PID control
- 5-Ch Communication with built-in functions
- DIN Rail Mountable

* Including both the main and expansion modules



General Specification

Item		Description		
Temperature	Ambient	0°C to 55°C		
	Storage	-25°C to +70°C		
Ambient & Storage Humidity		5 to 95% RH (Non - Condensing)		
Operating Ambience		Free from Corrosive Gases, excess Dust		
Altitude		Up to 2000 Meter		
Pollution Level		Less than 2		
Cooling		Air Cooling		
Dimensions (W x H x D)	32 Point	30 x 90 x 6		
	64 Point			
Vibration Resistance	Occasional	Frequency	AccelARATION	Pulse Width
		$10 \leq f \leq 57\text{Hz}$	-	0.075mm
	Continuous	$57 \leq f \leq 150\text{Hz}$	0.5G	-
		$10 \leq f \leq 57\text{Hz}$	-	0.035mm
		$57 \leq f \leq 150\text{Hz}$	0.5G	-

Noise Resistance

Item	Description
Square Wave Impulse Noise	+500V
Electrostatic Discharge	4kV
Radiated Electromagnetic Field Noise	80 - 1000MHz, 10 V/m
Fast Transient / Burst Noise	2kV

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Performance Specification

Item	XBM-DR16S	XBM-DN16H	XBM-DN32S
Control Method	Repetitive, Cyclic, Interrupt, Constant Scan		
I/O Control Method	Refresh Mode Batch Process by scan Synchronisation		
	Direct Mode by Instruction		
Programming Language	Ladder Diagram, Instruction List		
No. Of Instructions	Basic: 28, Applied: 677		
Processing Speed	160nS / Step (for basic instruction)		
Program Capacity	10K Step		
Max I/O Points	464 points (Main + 7 Exp)		480
Data Memory	P	P0000-P1274F (2048 points)	
	M	M0000-M255F (4096 points)	
	K	K0000-K2559F (40960 points)	
	L	L0000-L1279F (20480 points)	
	F	F000-F255F (4096 points)	
	T	100ms, 10ms, 1ms: T000-T255	
	C	C000-C255	
	S	S00.00-S127.99	
	D	D0000-D5119 (5120 word)	
	U	U00.00-U07.31 (Analog Refresh Area: 256 Word)	
	Z	Z000-Z127 (128 word)	
	N	N0000-N3935 (3936 word)	
	R	R0000-R10239	
Number of programs	128		
Operation Mode	RUN, STOP, DEBUG		
Self Diagnosis	Operation delay monitoring, memory error etc.		
Program Port	RS-232C		
Data Retention as Power Failure	Latch Range setting as Basic parameter		
Built in Function	RS-232C, RS485, High Speed Counter, PID Control, Pulse Catch, Input Filter, External Interrupt, Positioning		
Internal Current Consumption	400mA	250mA	280mA
Weight	140g	100g	100g
Rated Voltage	DC 24V		

Input Specifications

Item	XBM-DR16S	XBM-DN16H	XBM-DN32S
Input Points	8 Point	8 Point	16 Point
Rated Input Voltage	DC24V		
Rated Input Current	4mA (Contact 0-3:7mA)		
Operation Voltage Range	DC 20.4-28.8V (Ripple Rate < 5%)		
Common Method	8 Point / COM		16 Point
Response Time	OFF - ON	1/3/5/10/20/70/100 ms (Setting by CPU parameter) initial Value :3ms	
	ON - OFF		

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Relay Output Specifications

Item		XBM-DR16S
Output Points		8 Point
Insulation method		Relay insulation
Rated load voltage / current		24V 2A (R load) / 220V 2A (COSφ = 1), 5A/COM
Min. load voltage / current		DC 5V / 1mA
Max. load voltage		AC 250V, DC 125V
Off leakage current		0.1mA (AC 220V, 60Hz)
Max. On / Off frequency		3,600 times / hr
Service Life	Mechanical	20millions times or more
		Rated load voltage / current 100,00 times
	Electrical	AC 200V / 1.5A, AC 240V / 1A (COSφ=0.7)
		AC 200V / 1A, AC 240V / 0.5A (COSφ = 0.35) DC 24V / 1A, DC 100V / 0.1A (L / R = 7ms)
Response Time	Off - On	10ms or less
	On - Off	12ms or less
Common method		8 Point / COM

Transistor Output Specifications

Item		XBM-DN16S	XBM-DN32S
Output point		8 Point	16 Point
Insulation method		Photo coupler insulation	
Rated load voltage		DC12 / 24V	
Load voltage range		DC 10.2 ~ 26.4V	
Max. load voltage		0.2A / 1 point (P20 ~ 23: 0.1A / point)	
Max. inrush current		4A / 10ms or less	
Max. voltage drop (on)		DC 0.4V or less	
Response Time	Off - On	1ms or less	
	On - Off	1ms or less (Rated load, resistive load)	
Common method		8 point / com	16 point / com
External power	Voltage	DC 12 / 24V ± 10% (ripple voltage 4 Vp-p or less)	
	Current	10mA or less (DC 24V connection)	
External Connection Method		20 pin connector	

Wiring

