

› Logic Controller Millenium Evo

- › Up to 44 I/Os - 16 DI (4 HighSpeed / 8 AI) - 8 DO
- › Wireless programming & Control with bluetooth Interface and Crouzet Virtual Display
- › Modbus RTU Network (Slave)
- › Local datalog management
- › Up to 1000 programing blocks with intuitive Crouzet Soft to go from simple to complex applications



XBP24
Base 24 I/O



XBP24-E
Base 24 I/O Ethernet



XDP24
Base 24 I/O



XDP24-E
Base 24 I/O Ethernet

Product selection		
LCD display	Ethernet network	Part number
No	No	88 975 001
No	Yes	88 975 011
Yes	No	88 975 101
Yes	Yes	88 975 111

Product selection KIT	
Bluetooth Kit (Millenium EVO Ethernet 88 975 111, Bluetooth interface 88 980 112, Bluetooth receiver 88 980 116)	88 975 911
Bluetooth Kit (Millenium EVO Standalone 88 975 101, Bluetooth interface 88 980 112, Bluetooth receiver 88 980 116)	88 975 901

	XBP24	XBP24-E	XDP24	XDP24-E
General characteristics				
Part number	88 975 001	88 975 011	88 975 101	88 975 111
Products certification	CE, cULus Listed			
Conformity with the low voltage directive (in accordance with 2014/35/EU)	IEC/EN 61131-2 (Open equipment)			
Conformity with the EMC directive (in accordance with 2014/30/EU)	IEC/EN 61000-6-1 (Residential, commercial and light-industrial environments) IEC/EN 61000-6-2 (Industrial) IEC/EN 61000-6-3 (Residential, commercial and light-industrial environments) IEC/EN 61000-6-4 (Industrial)			
Power supply earthing	None			
Overvoltage category	3 in accordance with IEC/EN 60664-1			
Pollution	Degree : 2 in accordance with IEC/EN 61131-2			
Maximum utilization altitude	Operation: 2000 m Transport: 3000 m			
Mechanical resistance	Immunity to vibrations IEC/EN 60068-2-6, Fc test Immunity to shock IEC/EN 60068-2-27, Ea test			
Resistance to electrostatic discharge	Immunity to ESD IEC/EN 61000-4-2, level 3			
Resistance to HF interference (Immunity)	Immunity to radiated electrostatic fields IEC/EN 61000-4-3, level 3 Immunity to fast transients (burst immunity) IEC/EN 61000-4-4, level 3 Immunity to shock waves IEC/EN 61000-4-5 Radio frequency in common mode IEC/EN 61000-4-6, level 3			
Conducted and radiated emissions (in accordance with EN 55022/11 group 1)	Class B			
Operation temperature	-20 °C (-4 °F) → +60 °C (140 °F) (+40 °C (104 °F) in a non-ventilated enclosure) UL: maximum surrounding air: +50 °C (122 °F)			

Standard product

Product made to order

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	XBP24	XBP24-E	XDP24	XDP24-E
Storage temperature	-40°C (-40 °F) → +80°C (176 °F)			
Relative humidity	95% max. (no condensation or dripping water)			
Screw terminals connection capacity	Flexible wire with ferrule: 1 conductor: 0.2 to 2.5 mm ² (AWG 24-14) Flexible wire with ferrule: 2 conductors: 0.2 to 0.75 mm ² (AWG 24-18) Rigid wire: 1 conductor: 0.2 to 2.5 mm ² (AWG 24-14) Rigid wire: 2 conductors: 0.2 to 0.75 mm ² (AWG 24-18) Tightening torque: 0.5 N.m (4.5 lb-in) (tighten using screwdriver diam. 3.5 mm) Stripping length: 6 mm			
Material	Lexan, UL94V0			
Environnement	Reach, RoHS, Halogen free 1272/2008/CE			
On front panel color	Grey RAL 7035			
On sole color	Black RAL 9011			
Protection rating (in accordance with IEC/EN 60529)	IP 40 on front panel IP 20 on terminal block			
Weight	Without packing: 270 g With packing: 320 g	Without packing: 300 g With packing: 350 g		Without packing: 330 g With packing: 380 g
Dimensions	Without packing: 124.6 x 90 x 61.1 mm / 4.91 x 3.54 x 2.4 inch With packing: 148 x 103 x 65 mm / 5.83 x 4.06 x 2.56 inch		Without packing: 124.6 x 90 x 62 mm / 4.91 x 3.54 x 2.44 inch With packing: 148 x 103 x 65 mm / 5.83 x 4.06 x 2.56 inch	

Processing characteristics

LCD display	Without		Display with 4 lines of 18 characters, yellow/green	
Programming method	FBD (Function Block Diagram), including SFC (Sequential Function Chart) (Grafcet)			
Program size	Function blocks: typically 512 blocks Macro blocks: 127 max. (255 blocks per macro)			
Program memory	Flash			
Removable memory	N.A			
Data memory	2 k octets			
Back-up time (in the event of power failure)	Program and settings in the controller: 10 years Data memory: 10 years			
Data back-up	Data backup in the flash memory is guaranteed if the product is powered on more than 10 seconds			
Cycle time	From 2 ms* to 90 ms, default value: 10 ms *: Depending on configuration			
Clock data retention	10 years (lithium battery) at 25°C (77°F)			
Clock drift	Drift < 12 min/year (at 25°C (77°F)) 6 s / month (at 25°C (77°F) with user-definable correction of drift). Synchronizable by network			
Timer block accuracy	0.5 % ± 2 cycle time			
Start up time on power up	< 8 s base alone, < 5 s base + 2 expansions + 1 accessory (RS485)	< 10 s base alone, < 5 s base + 2 expansions + 1 accessory (RS485)	< 8 s base alone, < 5 s base + 2 expansions + 1 accessory (RS485)	< 10 s base alone, < 5 s base + 2 expansions + 1 accessory (RS485)
Self test	Test firmware integrity (checksum memory) Stability of the internal power supply Check the conformity of the em4 device configuration with the configuration in the application program.			

Supply

Nominal voltage	24 VDC (-15% / +20%)			
Operating limits	20.4 - 28.8 VDC			
Immunity from micro power cuts	≤ 1 ms (repetition 20 times)			
Max. absorbed power	3.8 W @ 24 VDC, 5 W @ 28.8 VDC, 1.5 W @ 24 VDC I/O OFF	4.8W @ 24 VDC, 6.2 W @ 28.8 VDC, 1.5W @ 24 VDC I/O OFF	4W @ 24 VDC, 5.3 W @ 28.8 VDC, - 0.3 W backlight OFF 1.5W @ 24 VDC (I/O + backlight) OFF	5W @ 24 VDC, 6.5 W @ 28.8 VDC, - 0.3 W backlight OFF 1.5W @ 24 VDC (I/O + backlight) OFF