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 IE	C/EN 60664-1				
Pollution	Degree : 2 in accordance	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)					



Product made to order



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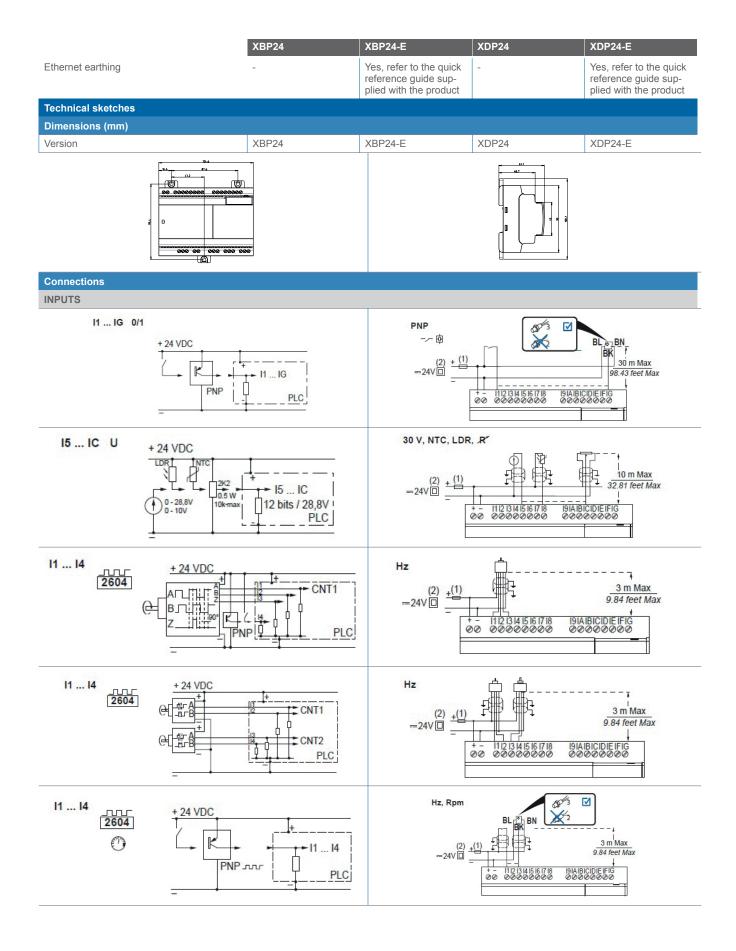
	XBP24	XBP24-E	XDP24	XDP24-E	
Storage temperature	-40°C (-40 °F) → +80°C	(176 °F)			
Relative humidity	95% max. (no condensa	ation or dripping water)			
Screw terminals connection capacity	Flexible wire with ferrule: 1 conductor: 0.2 to 2.5 mm2 (AWG 24-14) Flexible wire with ferrule: 2 conductors: 0.2 to 0.75 mm2 (AWG 24-18)				
	Rigid wire: 1 conductor: 0.2 to 2.5 mm2 (AWG 24-14) Rigid wire: 2 conductors: 0.2 to 0.75 mm2 (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 With packing: 148 x 103 x 65 mm / 5.8	1 mm / 4.91 x 3.54 x 2.4 inch			
Processing characteristics					
LCD display	Without Display with 4 lines of 18 characters, green			8 characters, yellow/	
Programming method	FBD (Function Block Dia	agram), including SFC (Se	equential 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 or	n 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	r) 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					
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 tim	ies)			
	3.8 W @ 24 VDC, 5 W	4.8W @ 24 VDC, 6.2	4W @ 24 VDC, 5.3 W	5W @ 24 VDC, 6.5 W	

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	XBP24	XBP24-E	XDP24	XDP24-E
Protection against polarity inversions	Yes			
Power monitoring	Yes and value available through the application «FB Status», 1/10V, 5%.			
Inputs				
Digital and high speed digital inputs 24 Vi	DC - 4 inputs from	ı l1 to l4		
Input used as digital input				
Input voltage	24 VDC (-15% /	+20%)		
Input current	1.8 mA @ 20.4 \	V		
	2.1 mA @ 24 V			
Investigation adapta	2.5 mA @ 28.8 \	V		
Input impedance	11.6 kΩ			
Logic 1 voltage threshold	≥ 15 VDC			
Making current at logic state 1	≥ 1.3 mA			
Logic 0 voltage threshold	≤ 10 VDC			
Release current at logic state 0	≤ 0.8 mA			
Response time	1 to 2 cycle time			
Sensor type	Contact or 3-wir	e PNP		
Conforming to IEC/EN 61131-2	Type 1			
Input type	Resistive			
Isolation between power supply and inputs	None			
Isolation between inputs	None			
Protection against polarity inversions	Yes		0-100	
Status indicator	No		On LCD screen	
Cable length	≤ 100 m			
Input used as high speed digital input	2 shannala anas	ndon //4 10 10 \ F 4 = *		
Maximum counting frequency	3 channels encoder (I1, I2, I3): 5 kHz* 2 independent counters (I1, I2) (I3, I4) (Cumul, IND, DIR): 2 channels: 10 kHz*,			
	4 channels: 5 kHz*,			
	2 independent counters (I1, I2) (I3, I4) (PH, PH2): 2/4 channels: 5 kHz*			
	4 independent c channels: 5 kHz		/Down) : 1 channel: 15 kF	Hz*, 2 channels: 10 kHz*, > 2
			$f = 50\% \pm 5\%$, level $0 < 2\%$	V and level 1 > 20,4V
Other functions	4 tachometers (I	11, I2, I3, I4)		
Cable length	≤ 3 m with shield	ded twisted cable		
Digital 24 VDC and analog inputs 12 bits /	28.8 V - potentior	meter - 8 inputs from I5	to IC	
Input used as digital input				
Input voltage	24 VDC (-15% /	+20%)		
Input current	1.8 mA @ 20.4 \	V		
	2.1 mA @ 24 V			
	2.5 mA @ 28.8 \	V		
Input impedance	11.6 kΩ			
Logic 1 voltage threshold	≥ 11 VDC			
Making current at logic state 1	≥ 1 mA			
Logic 0 voltage threshold	≤9 VDC			
Release current at logic state 0	≤ 0.7 mA			
Response time	1 to 2 cycle time	es .		
Sensor type	Contact or 3-wire	e PNP		
Conforming to IEC/EN 61131-2	Type 1			
Input type	Resistive			
Isolation between power supply and inputs	None			
Isolation between inputs	None			
Protection against polarity inversions	Yes			

	XBP24	XBP24-E	XDP24	XDP24-E
Status indicator	No		On LCD screen	
Cable length	≤ 30 m		011 202 0010011	
Input used as analog input	_ 00			
Measuring range	$0 \rightarrow 10 \ \text{V} \ 0 \rightarrow 1$	V power supply or Voltmet	er	
Input impedance	11.6 kΩ	T porter cuppily or retained		
Maximum value without destruction	28.8 VDC max			
Input type	Common mode			
Resolution		um input voltage (10 bit at	10V)	
Value of LSB	7.03 mV	an input voltago (10 bit at	101/	
Conversion time	Controller cycle	time		
Maximum error in 0-10V mode		cale at 25°C (77°F)		
		ale at 55°C (131°F)		
Maximum error in 0-V power supply mode		ale at 25°C (77°F) cale at 55°C (131°F)		
Repeat accuracy at 55°C (131°F)	± 2 %			
Voltmeter	From 0 to 30.5	V, 5%		
Isolation between analogue channel and power supply	None			
Protection against polarity inversions	Yes			
Potentiometer control	2.2 kΩ / 0.5 W ((recommended), 10 KΩ m	ax.	
Cable length	≤ 10 m with shie	elded twisted cable (senso	r not isolated)	
Digital 24 VDC - 4 inputs from ID to IG				
Input voltage	24 VDC (-15% /	/ +20%)		
Input current	1.5 mA @ 20.4	V		
	1.7 mA @ 24 V			
	2.1 mA @ 28.8	V		
Input impedance	13.9 kΩ			
Logic 1 voltage threshold	≥ 11 VDC			
Making current at logic state 1	≥ 0.8 mA			
Logic 0 voltage threshold	≤8 VDC			
Release current at logic state 0	≤ 0.5 mA			
Response time	1 to 2 cycle time	es		
Sensor type	Contact or 3-wir	re PNP		
Conforming to IEC/EN 61131-2	Type 1			
Input type	Resistive			
Isolation between power supply and inputs	None			
Isolation between inputs	None			
Protection against polarity inversions	No			
Status indicator	No		On LCD screen	
Cable length	≤ 30 m			
Outputs 6 A relay output - 2 outputs from O1 to O2				
Breaking voltage	250 VAC max			
Breaking current	6 A			
		45°C (113°F): 4A max		
Maximum breaking current in the common	IEC @ 25°C (77	7 °F): 12 A 40 °F) or UL: 10 A		
Mechanical life	5 000 000 opera			
	000 opon	(-) ()		

	XBP24	XBP24-E	XDP24	XDP24-E
Electrical durability for 50 000 operating cycles	24 VDC tau = 0 ms: 6 A, tau = 7 ms: 3 A, tau = 15 ms: 1.8 A Usage category DC-12: 24 V, 6 A Usage category DC-14: 24 V, 1.8 A 250 VAC cos phi = 1: 6 A, cos phi = 0.7: 5 A, cos phi = 0.4: 2.5 A Usage category AC-12: 250 V, 6 A Usage category AC-13: 250 V, 5 A Usage category AC-15: 250 V, 2 A			
Minimum switching capacity	100 mA (at minimum			
Maximum operating rate	Off load: 10 Hz At operating current: 0.1 Hz			
Voltage for withstanding shocks	In accordance with IE	EC/EN 60947-1 and IEC/EN	60664-1: 4 kV	
Response time	Make = 1 cycle time = Release = 1 cycle time			
Built-in protections	Against short-circuits: Against over voltages			
Status indicator	No		On LCD screen	
Cable length	≤ 30 m			
8 A relay output - 6 outputs from O3 to O8				
Breaking voltage	250 VAC max			
Breaking current	8 A Derating: CEI ≥ 55°C (131°F) or UL: ≥ 45°C (113°F): 6A max			
Maximum breaking current in the common	IEC @ 25°C (77°F): C3, C6: 8A; C4, C5: 16 A IEC @ 60°C (140 °F) or UL: C3, C6: 8 A; C4, C5: 10 A			
Mechanical life	20 000 000 operation	s (cycles)		
cycles	Usage category DC-12: 24 V, 8 A Usage category DC-14: 24 V, 1.5 A 250 VAC cos phi = 1: 8 A, cos phi = 0.7: 4.75 A, cos phi = 0.4: 3 A Usage category AC-12: 250 V, 8 A Usage category AC-13: 250 V, 4.3 A Usage category AC-15: 250 V, 1.5 A			
Minimum switching capacity	100 mA (at minimum			
Maximum operating rate	Off load: 10 Hz At operating current: 0.1 Hz			
Voltage for withstanding shocks	In accordance with IE	EC/EN 60947-1 and IEC/EN	60664-1: 4 kV	
Response time	Make = 1 cycle time + 10 ms typical Release = 1 cycle time + 5 ms typical			
Built-in protections	Against short-circuits: Against over voltages			
Status indicator	No		On LCD screen	
Cable length	≤ 30 m			
Ethernet network				
Programming / exploitation	-	USB & Ethernet port / Ethernet port	-	USB & Ethernet port / Ethernet port
Ethernet connection	-	Type RJ45, 10/100 Mbit/s, MDI/MDIX	-	Type RJ45, 10/100 Mbit/s, MDI/MDIX
Adressage	-	Static or dynamic (DHCP server / Auto IP)	-	Static or dynamic (DHCP server / Auto IP)
Protocols	-	Modbus TCP (client / server), Discovery, UDP, TCP, SMTP, SSL (workshop communi- cation via Ethernet)	-	Modbus TCP (client / server), Discovery, UDP, TCP, SMTP, SSL (workshop communi- cation via Ethernet)
Cable length	-	Maximun length between 2 devices: 100 m / 3937 inch	-	Maximun length between 2 devices: 100 m / 3937 inch



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O1 ... O8 \$\sim 12... 240\forall 50/60Hz = \frac{12...24V}{+}\$ O1 ... O8 \$\sim 12... 240\forall 50/60Hz = \frac{12...24V}{+}\$ O1 ... O8 \$\sim 12... 240\forall 50/60Hz = \frac{12...24V}{+}\$ O1 ... O8 \$\sim 12... 240\forall 50/60Hz = \frac{12...24V}{+}\$ O1 ... O8 \$\sim 12... 240\forall 50/60Hz = \frac{12...24V}{+}\$ O1 ... O8 \$\sim 12... 240\forall 50/60Hz = \frac{12...24V}{+}\$ O1 ... O8 \$\sim 12... 240\forall 50/60Hz = \frac{12...24V}{+}\$ O1 ... O8 \$\sim 12... 240\forall 50/60Hz = \frac{12...24V}{+}\$ O1 ... O8 \$\sim 12... 240\forall 50/60Hz = \frac{12...24V}{+}\$ O1 ... O8 \$\sim 12... 240\forall 50/60Hz = \frac{12...24V}{+}\$ O1 ... O8 \$\sim 12... 240\forall 50/60Hz = \frac{12...24V}{+}\$ O2 ... O3 \$\sim 12... 24V\$ O3 ... O4 ... O5 ..

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