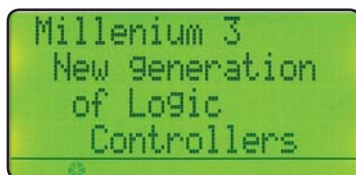




Millenium³



Actual size

Evolution is a logical process !

3rd generation of logic controllers at the core of your industry

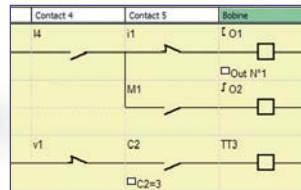
- **More** memory for your applications
- **More** comfort : largest display on the market
- **More** modularity in the number of inputs/outputs
- **More** simplicity for programming



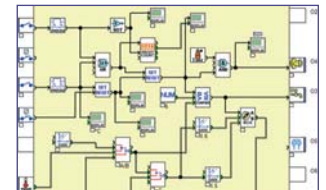
Millenium3



With the new **Millenium 3**, take advantage of evolution in the latest generation of logic controllers.



■ Ladder Language



■ Function Blocks/SFC Language

- **The best answer to your needs** because of its modularity.
- **Take your applications still further** with the Millenium 3's extended memory.
- **Optimise your wiring and installation time** with our self-powered extensions.
- **Enjoy** the real comfort of the largest display on the market.
- **Program easily & intuitively** just select the language best adapted to your trade: **Function Blocks/SFC or Ladder.**



The new Millenium 3 range

“Software” with still better performance:

■ Software innovations:

- macro editing (grouping function blocks) with password protection,
- new functions making the software even easier to use : split programming windows...

■ Functions which adapt to your needs:

- basic functions (counting, timers, comparison, display...),
- trade functions (rotating pump operation, PID regulation, Movement, Pressure, Level, Flow rate...),
- accepts specific functions developed to customer request.

Optimised “electronics”:

■ Standards and extendable versions: up to 50 inputs/outputs,

- **Inputs:** On/Off, potentiometer or 10-bit analog,
- **Outputs:** relay, static or PWM,
- **Mounting:** on DIN rail, or on panel using screws,
- **Integrated LCD display:** back-lit, 4 lines of 18 characters, scrolling screen, bar-graph,
- **Selective configuration:** choose which parameters can be adjusted from the front panel,
- **Saves your data:** for 10 years, even when mains power is interrupted,
- **Protects your programs:** with a password.



Offer Overview

Compact Millenium 3 range

■ “Standard” logic controller versions

- CD12 (8 inputs, 4 outputs)
- CD20 (12 inputs, 8 outputs)



CD12



CD20

■ “Blind” logic controller versions

- CB12 (8 inputs, 4 outputs)
- CB20 (12 inputs, 8 outputs)



CB12



CB20

Extendable Millenium 3 range

■ “Extendable” logic controller versions

- XD10 (6 inputs, 4 outputs)
- XD26 (16 inputs, 10 outputs)



XD10



XD26

■ On/Off extensions

- XR06 (4 inputs, 2 outputs)
- XR10 (6 inputs, 4 outputs)
- XR14 (8 inputs, 6 outputs)



XR06



XR10



XR14

■ 10-bit analog extension

- XA04 (2 inputs, 2 outputs)

■ “Sandwich” On/Off extension

- XE10 (6 inputs, 4 outputs)



XA04



XE10



Communication Modules and Accessories



XN03



XN05

Communication Extensions for 24 V DC Controllers

Connect your equipment to your monitoring systems with our slave extensions:

- **XN03:** Modbus Extension (exchanges four 16-bit words),
- **XN05:** Ethernet Extension (exchanges eight 16-bit words).



M3MOD



RTC



GSM



"Millenium 3 Alarm"
Software

Modem Communication Interface

Access all the Millenium 3's functions remotely via the **M3MOD Modem communication interface:**

- Download, modify and transmit your programs,
- Using the management software, receive alarm messages automatically by SMS or on your PC,
- Interrogate and verify remotely the state of the inputs, outputs and all the variables in your programs.

The **M3MOD Modem communication interface operates with either of the 2 following Modems:**

- **STN** Modem for line transmission networks,
- **GSM** Modem for wire-less communication in isolated installations.



M3 Kit

"Starter" Kits











- One Millenium 3 logic controller, either "Standard" version (12 or 20 Inputs/Outputs) or "Extendable" version (26 Inputs/Outputs),
- One PC/Controller programming cable (USB-type connector),
- One multilingual programming software (CD-ROM).

Millenium 3 Accessories

- 3 modular power supplies: 12 V DC-22 W, 24 V DC-30 W or 60 W,
- Temperature and pressure sensors,
- Plug-in connectors to facilitate maintenance operations,
- IP 67 sealed front cover,
- Memory cartridge (EEPROM) to change programs easily and update the firmware,
- PC/Controller connection (Serial, USB or Bluetooth),
- External potentiometer control for tactile adjustments accessible to all,
- Remote displays:
 - LED 36x72: 4-digit numerical display,
 - back-lit LCD: alpha-numeric display and configuration,
- Current/voltage converters,
- Temperature converters,
- Multilingual programming software for PC (CD-ROM)...



Selection guide *Millenium*³

Millenium 3	Voltage	Inputs	Outputs	LCD Display	Type	Part Number	
Standard or Blind Logic Controller*  CD12  CD20  CB20	24 V AC	8 On/Off	4 relay	Yes	CD12	88970044	
	100-240 V AC			No	CB12	88970024	
	12 V DC			Yes	CD12	88970043	
	24 V DC	8 On/Off (incl. 4 analog 10-bit)		No	CB12	88970023	
	24 V AC			Yes	CD12	88970045	
	100-240 V AC			Yes	CD12	88970041	
	12 V DC	12 On/Off	4 static (incl. 1 PWM)	No	CB12	88970021	
	24 V DC		Yes	CD12	88970042		
	24 V AC		Yes	CD20	88970054		
	100-240 V AC		No	CB20	88970034		
	12 V DC		Yes	CD20	88970053		
	24 V DC		No	CB20	88970033		
Extendable Logic Controller  XD10  XD26	24 V AC	6 On/Off	4 relay	Yes	XD10	88970144	
	100-240 V AC			Yes	XD10	88970143	
	24 V DC	6 On/Off (incl. 4 analog 10-bit)		4 static (incl. 1 PWM)	Yes	XD10	88970141
	24 V AC		16 On/Off	Yes	XD10	88970142	
	100-240 V AC	Yes		XD26	88970164		
	12 V DC	Yes		XD26	88970163		
	24 V DC	16 On/Off (incl. 6 analog 10-bit)		Yes	XD26	88970165	
	24 V AC			Yes	XD26	88970161	
	100-240 V AC	10 static (incl. 4 PWM)		Yes	XD26	88970162	
	Extensions  "Sandwich" XE10  XR10  XA04	24 V AC	6 On/Off	4 relay	-	XE10	88970324
		100-240 V AC			-	XE10	88970323
		24 V DC			-	XE10	88970321
24 V AC		4 On/Off	2 relay	-	XR06	88970214	
100-240 V AC				-	XR06	88970213	
12 V DC				-	XR06	88970215	
24 V DC		6 On/Off	4 relay	-	XR06	88970211	
24 V AC				-	XR10	88970224	
100-240 V AC				-	XR10	88970223	
12 V DC				-	XR10	88970225	
24 V DC				-	XR10	88970221	
24 V AC				8 On/Off	6 relay	-	XR14
100-240 V AC		-	XR14			88970233	
12 V DC		-	XR14			88970235	
24 V DC		-	XR14			88970231	
24 V DC		2 analog (10-bit)	2 analog (10-bit)	-	XA04	88970241	
Communication Modules  XN03		24 V DC	Modbus (Slave)		XN03	88970250	
		24 V DC	Ethernet (Slave)		XN05	88970270	
		12-24 V DC	M3MOD Modem Interface		M3MOD	88970117	
		12-24 V DC	STN Modem		RTC	88970118	
	12-24 V DC	GSM Modem		GSM	88970119		
	Programming Accessories 	Multilingual programming software (CD-ROM)			M3 SOFT	88970100	
Alarm management software (CD-ROM)			M3 ALARM	88970116			
Library of specific functions (CD-ROM)			M3 SPECIFIC FUNCTIONS	88970103			
Serial connection cable: PC => Millenium 3			PA	88970102			
USB connection cable: PC => Millenium 3			PA	88970109			
Bluetooth Interface			PA	88970104			
EEPROM memory cartridge			PA	88970108			

(*) Contact us for «bare board» versions of the logic controller



▶ **Millenium 3 Applications**

With the Millenium 3's new functions, access a multitude of applications:



Controlling irrigation/
automatic watering



Access control



Automatic vending



Rolling advertising
boards

- Other applications: Automatic washing equipment, agricultural machinery, managing air conditioning and heating systems

▶ **Millenium 3 Adaptations**

Crouzet can develop customised products, adapted to your needs :

- More inputs/outputs
- Dedicated connection
- Customised housing
- Develop dedicated trade functions
- Extended temperature range
- Specific extension module
- Epoxy-sealed Millenium 3 version for tough environments

Contact our salesmen and technicians with specialist
Micro-control expertise, for your specific applications

Plug-in epoxy-
sealed Millenium 3

Extended bare
board Millenium
3 with 16 relay
outputs

Epoxy-sealed
Millenium 3 with
wire outputs and
pre-cabled harness