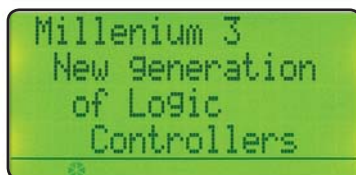




# Millennium<sup>3</sup>



Actual size

## Evolution is a logical process !

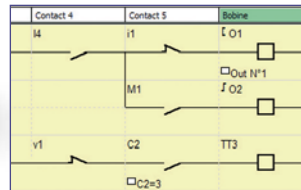
3<sup>rd</sup> generation of logic controllers at the core of your industry

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

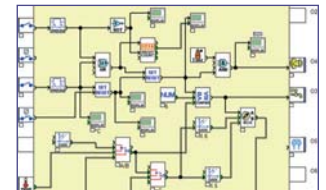
# Millenium3



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)



XA04



XE10

- “Sandwich” On/Off extension
- XE10 (6 inputs, 4 outputs)

# 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).



## 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.



M3MOD



RTC



GSM



"Millenium 3 Alarm"  
Software



## "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).



M3 Kit













## 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*<sup>3</sup>

Millenium 3	Voltage	Inputs	Outputs	LCD Display	Type	Part Number	
<b>Standard or Blind Logic Controller*</b>   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		
	24 V AC	12 On/Off (incl. 6 analog 10-bit)	Yes	CD20	88970055		
100-240 V AC	Yes		CD20	88970051			
12 V DC	No		CB20	88970031			
24 V DC	8 static (incl. 4 PWM)	Yes	CD20	88970052			
<b>Extendable Logic Controller</b>   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
	12 V DC			Yes	XD10	88970142	
	24 V AC	16 On/Off	10 relay	Yes	XD26	88970164	
	100-240 V AC			Yes	XD26	88970163	
	12 V DC			Yes	XD26	88970165	
	24 V DC			Yes	XD26	88970161	
	24 V AC	16 On/Off (incl. 6 analog 10-bit)		10 static (incl. 4 PWM)	Yes	XD26	88970162
	100-240 V AC			Yes	XD26	88970162	
<b>Extensions</b>   "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	8 On/Off	6 relay		-	XR10	88970221
	24 V AC				-	XR14	88970234
	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
	<b>Communication Modules</b>   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		
<b>Programming Accessories</b>  		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

# Applications - Adaptations

## 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

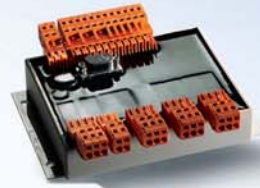
- Other applications: Automatic washing equipment, agricultural machinery, managing air conditioning and heating systems

## 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

For further information on:  
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