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Millennium³

Millennium 3
New Generation
of Logic
Controllers

Actual size

Evolution is a logical process !

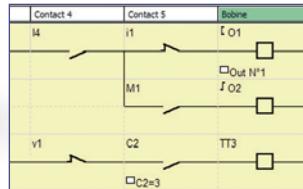
3rd generation of logic controllers at the core of your industry

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

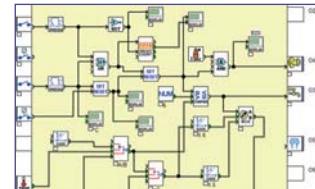
Millenium3



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

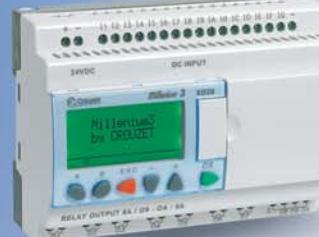


Extendable Millenium 3 range

- “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)



XA04



XE10

Communication Modules and Accessories



XN03



XN05



M3MOD



RTC

GSM

"Millenium 3 Alarm"
Software

M3 Kit



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.

"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 Millennium3

Millenium 3	Voltage	Inputs	Outputs	LCD Display	Type	Part Number
Standard or Blind Logic Controller*	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			No	CB12	88970023
	24 V AC	12 On/Off (incl. 4 analog 10-bit)	8 relay	Yes	CD12	88970045
	100-240 V AC			Yes	CD12	88970041
	12 V DC			No	CB12	88970021
	24 V DC			4 static (incl. 1 PWM)	Yes	CD12
	24 V AC	12 On/Off	8 relay	Yes	CD20	88970054
	100-240 V AC			No	CB20	88970034
Extendable Logic Controller	12 V DC			Yes	CD20	88970053
	24 V DC	16 On/Off (incl. 6 analog 10-bit)	10 relay	No	CB20	88970033
	24 V AC			Yes	CD20	88970055
	100-240 V AC			Yes	CD20	88970051
	12 V DC	16 On/Off (incl. 6 analog 10-bit)	10 static (incl. 4 PWM)	No	CB20	88970031
	24 V DC			Yes	CD20	88970052
	24 V AC			Yes	XD10	88970144
	100-240 V AC			Yes	XD10	88970143
	24 V DC			Yes	XD10	88970141
	24 V AC	16 On/Off	10 relay	Yes	XD10	88970142
Extensions	100-240 V AC			Yes	XD26	88970164
	12 V DC			Yes	XD26	88970163
	24 V DC			Yes	XD26	88970165
	24 V AC	16 On/Off (incl. 6 analog 10-bit)	10 static (incl. 4 PWM)	Yes	XD26	88970161
	100-240 V AC			Yes	XD26	88970162
	24 V DC			-	XE10	88970324
"Sandwich"	24 V AC	6 On/Off	4 relay	-	XE10	88970323
	100-240 V AC			-	XE10	88970321
	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			-	XR06	88970211
XR10	24 V AC	6 On/Off	4 relay	-	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	88970234
	100-240 V AC			-	XR14	88970233
	12 V DC			-	XR14	88970235
	24 V DC			-	XR14	88970231
XA04	24 V DC	2 analog (10-bit)	2 analog (10-bit)	-	XA04	88970241
	Voltage	Description		Type	Part Number	
Communication Modules	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

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

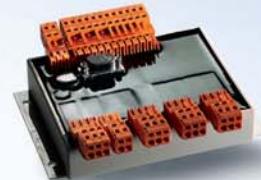
Millenium 3 Adaptations

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

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