Millenium 3

Millenium 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
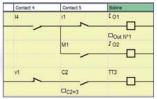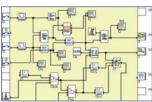- ■ **More** simplicity for programming

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Millenium 3

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.

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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

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Communication Modules and Accessories

XN03   XN05

RTC

M3MOD   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).
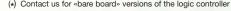
🔺 Millenium 3 Accessories

- 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)...

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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
				No	CB12	88970024
	100-240 V AC			Yes	CD12	88970043
				No	CB12	88970023
	12 V DC	8 On/Off (incl. 4 analog 10-bit)		Yes	CD12	88970045
	24 V DC			Yes	CD12	88970041
				No	CB12	88970021
			4 static (incl. 1 PWM)	Yes	CD12	88970042
	24 V AC	12 On/Off	8 relay	Yes	CD20	88970054
				No	CB20	88970034
	100-240 V AC			Yes	CD20	88970053
				No	CB20	88970033
	12 V DC	12 On/Off (incl. 6 analog 10-bit)		Yes	CD20	88970055
	24 V DC			Yes	CD20	88970051
				No	CB20	88970031
			8 static (incl. 4 PWM)	Yes	CD20	88970052
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)		Yes	XD10	88970141
			4 static (incl. 1 PWM)	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	16 On/Off (incl. 6 analog 10-bit)		Yes	XD26	88970161
			10 static (incl. 4 PWM)	Yes	XD26	88970162
Extensions "Sandwich" XE10	24 V AC	6 On/Off	4 relay	-	XE10	88970324
	100-240 V AC			-	XE10	88970323
	24 V DC			-	XE10	88970321
XR10	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
	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 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

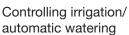(∗) Contact us for «bare board» versions of the logic controller

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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