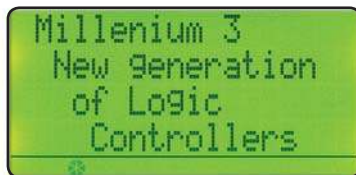




Millenium³



Actual size

Evolution is a logical process !

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

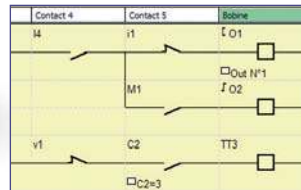
- **More** memory for your applications
- **More** comfort : largest display on the market
- **More** modularity in the number of inputs/outputs
- **More** simplicity for programming



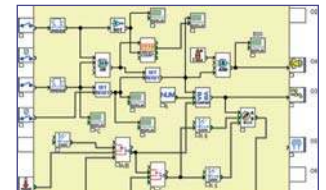
Millenium3



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

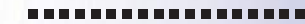
- CB12 (8 inputs, 4 outputs)
- CB20 (12 inputs, 8 outputs)



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).



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*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 | | 12 On/Off (incl. 6 analog 10-bit) | 8 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 relay | No | CB20 | 88970031 | | | |
| 24 V DC | | | 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) | | 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 | |
| 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 | 88970234 |
| | 100-240 V AC | - | XR14 | | | 88970233 | | |
| | 12 V DC | - | XR14 | | | 88970235 | | |
| | 24 V DC | - | XR14 | | | 88970231 | | |
| | 24 V AC | 2 analog (10-bit) | 2 analog (10-bit) | | | - | XA04 | 88970241 |
| | 100-240 V AC | | | | | - | 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