Millenium 3

THE BEST LOGIC CONTROLLER
FOR AUTOMATING YOUR EQUIPMENT

CROUZET
AUTOMATION

A BRAND OF
INNOVISTA
SENSORS

CONCENTRATED PERFORMANCE!

THE SIMPLEST TO USE AND MOST POWERFUL ON THE MARKET

Millenium3

MILLENIUM 3 LOGIC CONTROLLER:

› Modular range
› Easily integrated
› Appropriate solutions
› Easier to read

› Backlit blue LCD screen
› Up to 50 inputs/outputs
› RS485 Modbus extension, Ethernet TCP/IP Modbus

› Usable at temperatures between -20°C and +70°C, a 10°C to 15°C wider range than other logic controllers on the market! A difference which gives you greater confidence in your installations.

Simplified programming
Create, edit, save and re-use your custom macros. Save time when updating your applications.

The equipment's essential features
Connect the temperature sensors directly to the Millenium 3's analog inputs - no converter necessary!

Connectivity
Remotely connect to your installation remotely using the Millenium Virtual Display application for Smartphone and PC (via Bluetooth or USB).

Optimized Installation & Maintenance
With pluggable versions, you can save maintenance time and maximize your machinery's availability.
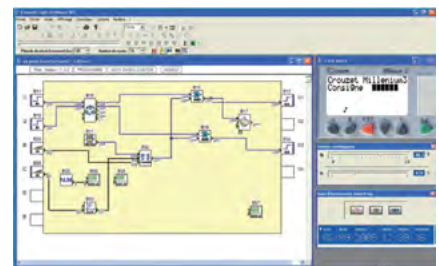
Ref.	Type	Inputs	Outputs	Power supply
88974080	Starter kit - CD12	8 digital (including 4 analog)	4 relays 8 A	24 V DC
88974081	Starter kit - CD12	8 TOR	4 relays 8 A	100 → 240 V AC
88974084	Starter kit - XD26	16 digital (including 6 analog)	10 relays (8 x 8 A relay and 2 x 5 A relay)	24 V DC
88974085	Starter kit - XD26	16 TOR	10 relays (8 x 8 A relay and 2 x 5 A relay)	100 → 240 V AC
88974041	CD12 Smart	8 digital (including 4 analog)	4 relays 8 A	24 V DC
88974043	CD12 Smart	8 TOR	4 relays 8 A	100 → 240 V AC
88974161	XD26 Smart	16 digital (including 6 analog)	10 relays (8 x 8 A relay and 2 x 5 A relay)	24 V DC
88974163	XD26 Smart	16 TOR	10 relays (8 x 8 A relay and 2 x 5 A relay)	100 → 240 V AC

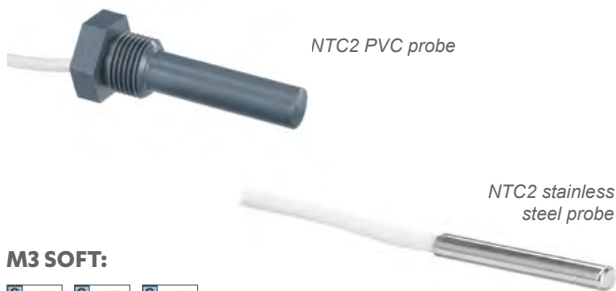| Ref.	Type	Input Voltage	Nominal power	Output current
88950304	Alimentation	24 V DC (22,8 V → 28,8 V)	15 W	0,6 A
88950307	Alimentation	24 V DC (22,8 V → 28,8 V)	30 W	1,2 A
88950302	Alimentation	24 V DC (22,8 V → 28,8 V)	60 W	2,5 A

M3 SOFT PROGRAMMING SOFTWARE

THE ADVANTAGES:

› Quick, simple and intuitive programming

› Generic function library (counting, setting a delay, etc.) and dedicated functions (pump permutations, PID regulation, etc.)

› Programming language: FBD (Function Block Diagram) and SFC (Sequential Function Chart) or LD (Ladder Diagram)

MEASURING TEMPERATURE AND BRIGHTNESS BECOMES EASY!

MEASURING THE TEMPERATURE

NTC2 PVC probe

NTC2 stainless steel probe

M3 SOFT:

CTN1 °C CTN2 °C CTN3 °C

OUR SOLUTION:

› The Millenium 3 Smart range is directly compatible with NTC probes without the use of a converter.

› NTC probes allow temperatures between -35°C and 180°C to be measured and checked, depending on the reference used*

› The temperature in °C can be read directly using the dedicated function blocks

Ref.	Type	Description	Ohmic value	Measurement range
89750174	PVC	NTC2 probe PVC for Millenium 3 (24 V DC, ± 10 %)	10 kΩ @ 25°C	-25 → +85°C
89750182	Stainless steel	NTC2 probe stainless 305 for Millenium 3 (24 V DC, ± 10 %)	10 kΩ @ 25°C	-35 → +120°C

Datasheets NTC probes

MEASURING BRIGHTNESS

LDR1 sensor

M3 SOFT:

LUX-I

OUR SOLUTION:

› The LDR1 light probe directly connects to Millenium 3 Smart range analog inputs without a converter.

› The LDR probe measures light intensity.

› The Millenium 3 Smart is the only logic controller on the market that allows between 1 and 6 LDR probes to be connected directly to analog inputs.
No converter necessary!*

› Direct reading of the value in Lux (10 → 3000 Lux) using the dedicated function block.

Ref.	Type	Description	Measurement range
89750183	AS	Light sensor LDR1 for Millenium 3 (24 V DC, ± 10 %)	10 → 3000 Lux

Datasheet LDR probe

COMMUNICATION THAT MAKES THE DIFFERENCE!

› Allows the operator to have the Millenium 3 screen available on a mobile device (PC, Smartphone, Tablet)
› Simplifies setting up and adjusting Millenium 3 applications
› Allows equipment to be monitored remotely
› Makes the Millenium 3 screen accessible when installed out of the operator's reach
› Can be used with the entire Millenium 3 range, with or without display
› The connection between the Millenium 3 and the terminal operates via a Bluetooth interface or a USB cable

OUR SOLUTION:

› You can easily connect your computer and/or smartphone to the Millenium 3 via Bluetooth and access the screen from up to 10 m away (no cable needed!)

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Ref.	Type	Description
MVD-AND-S	Android	Millenium 3 Virtual Display
MVD-PCW-S	Windows XP/7	Millenium 3 Virtual Display
88970104	PA	Millenium 3 interface → Bluetooth (class A 10 m)

Download M3 Virtual Display

* Only valid for 12 V DC and 24 V DC versions

PROGRAMMABLE GRAPHIC DISPLAY TOUCH SCREENS

MTP6/50
MTP8/50
MTP8/70

> Compact resistive touch screen
> Wide viewing angle, 70° horizontally and vertically
> LCD 65536 color technology, LED backlighting
> Display of texts, data, graphics, animations
> Handling of alarms and receipts
> Data archived on the 128 MB flash memory supplied as standard, an SD card or a USB key, depending on the version
> RS232/RS285 serial ports, Ethernet TCP/IP port or USB port depending on the version
> Direct communication with the programming socket on the Millenium 3 logic controller (24 V DC)
> EB programming software (Windows /XP/Vista/7)

➕ OUR SOLUTION:

> High brightness, high resolution
> Rich, intuitive programming interface, graphical customization of your applications
> Direct connection to the Millenium 3 programming connector

Ref.	Type	Description	Programming link	Communication link
88970492	RD	MTP6/50 user kit (fixing brackets, MTP-M3 cable)	USB-MiniUSB cable	Direct connection M3-MTP Modbus RS232/RS485 serial port
88970494	RD	MTP8/50 user kit (fixing brackets, MTP-M3 cable)	Ethernet to RJ45 crossover cable	Direct connection M3-MTP Modbus RS232/RS485 serial port, Ethernet TCP/IP port
88970496	RD	MTP8/70 user kit (MTP8/70, fixing brackets, MTP-M3 cable)	USB-MiniUSB cable or Ethernet RJ45 crossover cable	Direct connection M3-MTP 2 Modbus RS232/RS485 serial ports, USB port, Ethernet TCP/IP port

Datasheets
MTP screens

🔧 MILLENIUM 3 WITH PLUGGABLE CONNECTORS

➕ OUR SOLUTION:

> The Millenium 3 with pluggable connectors improves the machine's rate of availability
> Facilitates wiring, allows pre-wiring

> Makes front panel mounting easy
> Suitable for machines subject to vibration and mobile machines due to the use of spring terminal connectors
> Compatible with 5.08 mm pitch standard connectors (straight, elbowed and spring cage screws)

Ref.	Type	Description	Input	Output	Power supply
88974441	CD12 RBT Smart	Smart Compact with display and removable terminal blocks	8 digital (including 4 analog)	4 relays 8 A	24 V DC
88974561	XD26 RBT Smart	Smart Expandable with display and removable terminal blocks	16 digital (including 6 analog)	10 relays (8 x 8 A relay and 2 x 5 A relay)	24 V DC
88970313	MA	Removable connector (spring cage) kit for NBR12, CD12 RBT			
88970317	MA	Removable connector (spring cage) kit for XD26 RBT			

ABOUT CROUZET AUTOMATION

Supported by an experienced technical team, Crouzet Automation is a pioneer in the simplification of programming. The brand offers the easiest-to-use and most adaptable alternative automation solution for specialized and demanding needs.
Crouzet Automation is a brand of InnoVista Sensors™.

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