Millenium 3

The best logic controller for automating your equipment
CONCENTRATED PERFORMANCE!
THE SIMPLEST TO USE AND MOST POWERFUL ON THE MARKET

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.

**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.

**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!

**M3 SOFT PROGRAMMING SOFTWARE**
- 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)
- Backwards compatible with M3 SOFT: M3 Virtual Display
- Monitors the Millenium 3 via Bluetooth and access the screen from up to 10 m away (no cable needed!)
- Allows equipment to be monitored remotely
- Meets the Millenium 3 Smart 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

**MEASURING TEMPERATURE AND BRIGHTNESS BECOMES EASY!**

**MEASURING THE TEMPERATURE**

- 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.

<table>
<thead>
<tr>
<th>Ref. Type</th>
<th>Description</th>
<th>Measurement range</th>
</tr>
</thead>
<tbody>
<tr>
<td>89750174</td>
<td>NTC2 probe PVC for Millenium 3 (24 V DC, ± 10 %)</td>
<td>10 kΩ @ 25°C, -25 → +85°C</td>
</tr>
<tr>
<td>89750182</td>
<td>NTC2 probe stainless steel for Millenium 3 (24 V DC, ± 10 %)</td>
<td>10 kΩ @ 25°C, -25 → +120°C</td>
</tr>
</tbody>
</table>

**MEASURING BRIGHTNESS**

- 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.

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<tr>
<th>Ref. Type</th>
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<tbody>
<tr>
<td>89750183</td>
<td>Light sensor LDR1 for Millenium 3 (24 V DC, ± 10 %)</td>
<td>10 → 3000 Lux</td>
</tr>
</tbody>
</table>

**COMMUNICATION THAT MAKES THE DIFFERENCE!**

- OUR SOLUTION:
  - 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.

**M3 SOFT DATA SHEETS**
- M3 Virtual Display
- M3 Soft Datasheets
- NTC probes
- Stainless NTC probes
- Steel NTC probes
- PVC NTC probes
- LDR probe
- Millenium Virtual Display

Download M3 Virtual Display

* Only valid for 12 V DC and 24 V DC versions.
The Automation & Control product lines offers timers, monitoring relays and counters which makes it easy to control the operation of industrial equipment. Our logic controllers and nano-PLCs automate larger jobs, offering the easiest to use function block programming and the ability to communicate remotely with your equipment.

Crouzet is a brand of InnoVista Sensors™. InnoVista Sensors™ is a worldwide industrial specialist of sensors, controllers and actuators for automated systems.

Through its brands, Crouzet and Systron Donner Inertial, InnoVista Sensors™ offers a wide range of reliable, efficient and customizable components dedicated to the Aerospace & Defense, Transportation and Industrial markets and segments.

Thanks to the recognized expertise of its teams and a strong innovation policy, InnoVista Sensors™ brings performance enhancing solutions to its customers worldwide.

InnoVista Sensors™: your trusted partner of choice to face industrial challenges of today and tomorrow.

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**PROGRAMMABLE GRAPHIC DISPLAY TOUCH SCREENS**

- 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)

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**OUR SOLUTION:**

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

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

**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

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

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