![Millenium]

Logic Controller F.A.Q.

General questions

- **Where can I buy the Millenium logic controller? How much does it cost?**

  You can find stock and the best price for the **Millenium** at your preferred Crouzet authorized partner in the next link: Crouzet Authorized Partners

- **Does the Millenium come pre-programmed?**

  No, the controller does not have a program when purchased. Use the programming software **CrouzetSoft** (that you can download in the next link: Crouzet Soft) to create and upload your program.

- **How can I visualize the status of my application if I have the Millenium version without display?**

  A couple of LEDs in the front face of the product will let you know of current status (The LED operation description can be found in section 6 of our *User Manual* available at the Crouzet's SODA database). You can also visualize the status of your application in real time through your computer or mobile device thanks to the **webserver**.

- **What do the blinking LEDs on the Millenium mean?**

  There are several actions that the LEDs can indicate. The description of the LEDs operation can be found in the *User Manual* available at the Crouzet's SODA database

- **What are the maximum electrical characteristics of the Millenium?**

  All the electrical characteristics can be found in our *Datasheet* available at the Crouzet's SODA database

- **How can I retrieve a Datalog in Millenium?**

  You can access to the datalog thanks to the **Webserver** and the SD card.

- **Can I configure alerts with Millenium?**

  Millenium does not have alert functionality. To have this option, you can check at our other controllers:
  - Communicating Logic controller **MILLENIUM EVO**
  - Nano-PLC **em4NANOPLC**
  - Telecontroller **em4ALERT**.

- **Can I expand the I/Os capabilities of my Millenium? Are there any expansions compatible?**

  There are many expansions compatible for **Millenium** (up to 60 I/Os), but there are some compatibility rules. In order to have more details about the expansions, check the **Millenium expansions** datasheets under SODA:

Installation questions

- ### Where can I find the user manual for the Millenium?
  The *User Manual* of Millenium can be found in the Crouzet's SODA database

- ### How do I install my Millenium?
  The installation instructions can be found in our *User Manual* available at the Crouzet's SODA database

- ### What type of devices can I connect to the inputs of the Millenium?
  Millenium has flexible configurable inputs (digital, analog voltage, high-speed, PWM) which are compatible with a variety of industrial devices (contacts, buttons, switches, sensors, potentiometers, probes, encoders, etc.). For more details about the input capabilities, please refer to the *Datasheet*. You can find the datasheet within the Crouzet's SODA database

- ### What are the maximum cable sizes that I can use for the connections of Millenium?
  There are several sizes depending on the cables to use. The consideration of the connections characteristics can be found the datasheet available at the Crouzet's SODA database

Connectivity questions

- ### How can I transfer a program to Millenium?
  You can transfer your program to your Millenium via the ethernet port, via the SD card interface or on your local network via the webserver.

- ### Can I exchange data between different logic controllers Millenium?
  Yes, it is possible to establish connection between 2 Millenium via client - server communication thru Ethernet and Modbus TCP protocol, so they can exchange data.

- ### Can I exchange data between Millenium and other Crouzet controllers?
  Yes, it is possible to exchange data with other Crouzet controllers, MEvo, em4 and even Millenium3 (with limitations).

- ### Can I use Modbus RTU with Millenium?
  Modbus RS485 is available on Millenium

- ### Can I use Ethernet (Modbus TCP/IP) with Millenium?
  Yes. There is Ethernet (Modbus TCP/IP) communication capabilities in Millenium.

- ### The computer does not recognize the Millenium
    - Check the electrical connections.
    - Check that your computer is compatible with ethernet
    - Check your Controller choice in the programming software. Go to "Controller" menu and select "Choose the type of controller..." Then choose the right Controller using the part number reference of the one you are using. Select the correct one and click on "Next" until you return to the programming window.
    NOTE: When you change the type of your controller, please check your programing sheet again. The change can bring differences on the inputs and outputs.

Software questions

- ### Is the software of Millenium the same as all other controllers?
  Millenium uses the programming software **CrouzetSoft**, it is the same software as for the next controllers:
    - Communicating Logic Controller **MILLENIUM EVO**
    - Nano-PLC **em4_{NANOPLC}**
    - Telecontroller **em4_{ALERT}**.

- ### Is the software of Millenium free or there is a cost?
  All the programming software of Crouzet are completely free. You can program, simulate, and have all functionality at no cost.

- ### Is there a license limit in the users of the programming software of Millenium?
  There are no licenses or limits in the quantity of users or computers that can use the programming software of Crouzet. You can program, simulate, and have all functionality at no cost.

- ### Where can I find the programming software of Millenium?
  Millenium uses the programming software **CrouzetSoft**, that you can download in the next link: Crouzet Soft

- **Can I use programs made for other Crouzet controllers (em4 or others) with Millenium and vice versa?**
  Yes, it is possible to import and use a program made in any of the next controllers:
    - Logic Controller **Millenium3**
    - Communicating Logic Controller **MILLENIUM EVO**
    - Nano-PLC **em4 NANOPLC**
    - Telecontroller **em4 ALERT**.

  To do so, you just need to open the pm3, pm4, mevo or cps file on the **Millenium** programming software **CrouzetSoft**. Just note that you need to check your programing sheet again. To import a program from other controller can bring differences on the inputs and outputs, so you will probably need to adapt your program.

- **With which version of Windows is compatible the programming software of Millenium CrouzetSoft?**
  The software is compatible with Windows 10.

- **Is the programming software of Millenium CrouzetSoft compatible with iOS operating systems?**
  No, the programming software of **Millenium CrouzetSoft** is not compatible with IOs operating systems. The software is compatible with Windows 10.

- **Is the programming software of Millenium CrouzetSoft compatible with Linux or other open-source operating systems?**
  No, the programming software of **Millenium CrouzetSoft** is not compatible with Linux or other open-source operating systems. The software is compatible with Windows 10.

- **Where can you find Help on the use of the programming software of Millenium?**
  You can get help with your program s oftware in several ways. The software has two icons on the standard Toolbar that allow you to access the Controller **Online Help**. You can also find information directly on the different function blocks. When you put on your mouse on the function blocks inputs/outputs, a feature appears. This feature is explained in the function block Help.

  - **Will the Millenium 3 software still be available and working?**
    Yes, the Millenium 3 will remain available. Just note that no further new versions will be developed.

Hardware questions

- **Is the fixation configuration of the Millenium equivalent to the Millenium 3?**
  For products using DIN Rail configuration, the fixation configuration is equivalent. For products placed on PCB or electronic boards, fixation configuration may be impacted due to the change of location of the fastening tabs. Please see below the **Millenium** fastening tabs location:

- **Is the screen characteristics different on the Millenium?**
  Yes, new upgraded screen features are available on Millenium:
    - Additional lines and characters: 6 lines and 24 characters per line,
    - Configurable screen colors based on application status: Orange, green or white.

During the process of transitioning between a Millenium 3 software to the Crouzet Sodt, display Function Blocks may be impacted, please review the text positioning.

- **Can I use a Modbus RS485 Interface and a Memory Card Interface at the same time on the Millenium?**
  No, the Memory Card Interface and the Modbus RS485 Interface cannot be used at the same time.

- **Can I use a Modbus RS485 and Ethernet at the same time on the Millenium?**
  Yes.

- **What is the purpose of the Memory Card on the Millenium?**

  The memory card can be used to load a new program, or to retrieve datalog.

- **Is the SD Memory Card delivered with the Millenium?**

  The SD memory card is not delivered with the Millenium.