

This powerpoint will show you the programming functions of MTPWIN, it will take you to open MTP05 and Millenium3 programs to discover the mode of its operation.

MTP05 screen & Millenium3







Software Installation

MTP05 Functionalities

Addressing

Internal Address Zone

MTPWIN Introduction

Commisioning M3+MTP05

Data **Backup**

Links to **Programs**

M3 + MTP05 Glossary

Contents

- Software installation and wiring
- The various functionalities of the MTP05 (links to the program descriptions)
- **Basics**
 - Addressing
 - Configurating the address zone to pilot MTP05 by Millenium3 (M3)
- MTP05 presentation
 - Introducing MTPWIN
 - Wiring and commissioning an M3 MTP05 data exchange
 - Read/write word/bit
 - Recipe
 - **Alarms**
 - Pilot MTP05 by M3
 - Read/write parameters M3
 - Line graph
 - Other functions
 - Links to MTP05 / M3 programs
- SD card data backup
- Glossary





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sioning

Links to M3 + MTP05 Glossary **Programs**

Installing the MTPWIN software





Restart your PC after installation





MTP05 Functionalities

Addressing

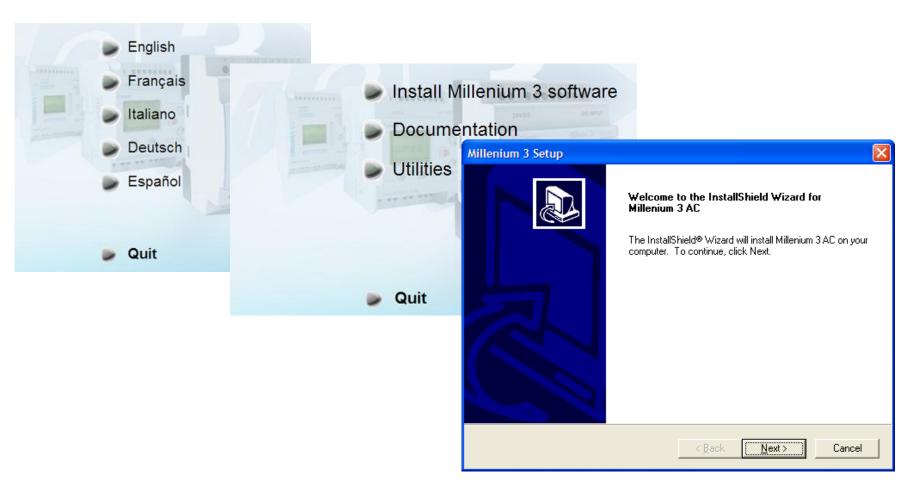
Internal Address Zone

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Installing the software Millenium3







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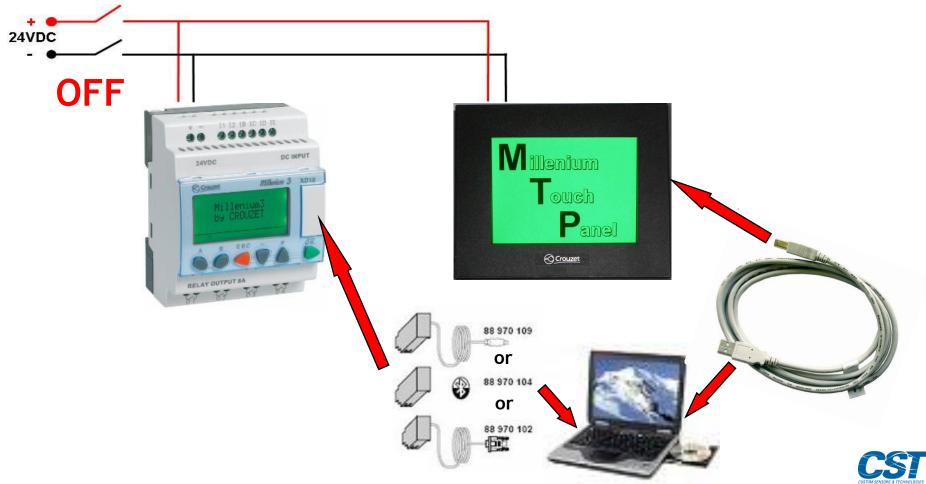
sioning

Links to M3 + MTP05 Glossary **Programs**

Wiring for program transfer



The power <u>must be</u> disconnected whenever inserting or extracting the connector into/from Millenium3 or the USB cable into/from MTPo5!





Software Installation and Wiring

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Commisioning Ba

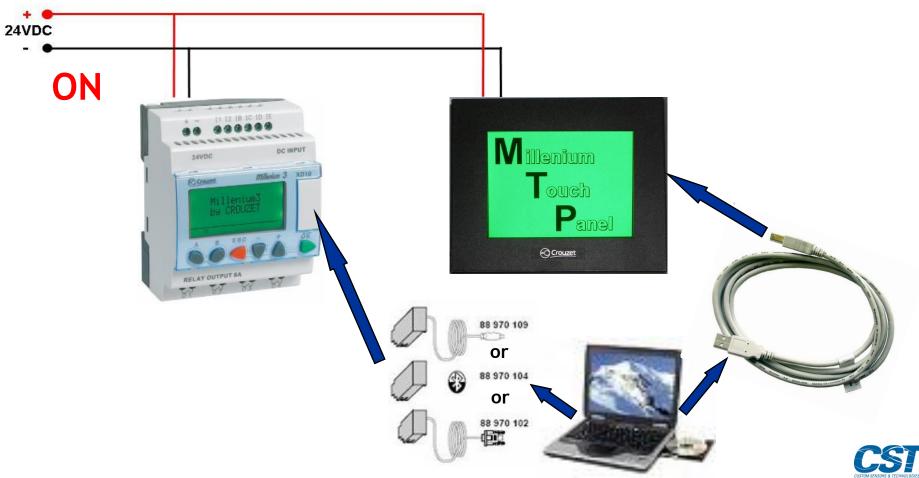
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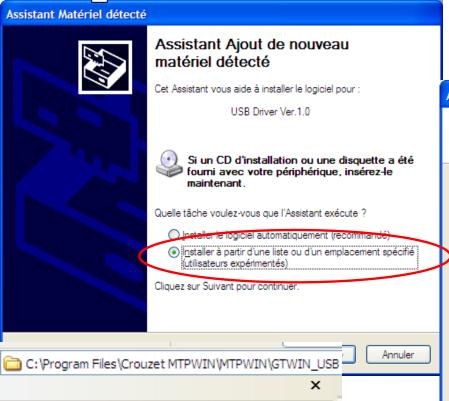
Data **Backup**

Links to M3 + MTP05 Glossary **Programs**

After connecting MTPo5 to the USB port, this message will appear

USB driver installation





Assistant Matériel détecté Choisissez vos options de recherche et d'installation Rechercher le meilleur pilote dans ces emplacements. Utilisez les cases à cocher ci-dessous pour limiter ou étendre la recherche par défaut qui inclut les chemins d'accès locaux et les médias amovibles. Le meilleur pilote trouvé sera installé. Rechercher dans les médias amovibles (disquette, CD-ROM...) ✓ Inclure cet emplacement dans la recherche C:\Program Files\Crouzet MTPWIN\MTPWIN\GTW V Ne pas rechercher. Je vais choisir le pilote à installer. Choisissez cette option pour sélectionner le pilote de périphérique à partir de la liste. Windows ne garantit pas que le pilote sélectionné sera le plus performant pour votre périphérique. < Précédent Suivant > Annuler



□ Crouzet MTPWIN MTPWIN

🗀 nla

GTWIN USB HELP E HELP J



Software Installation and Wiring

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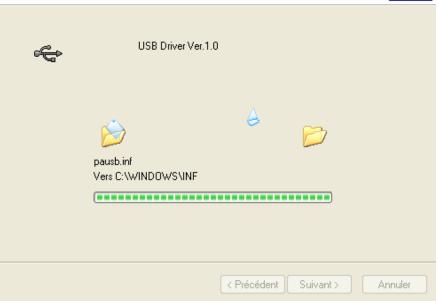
Programs



Assistant Matériel détecté

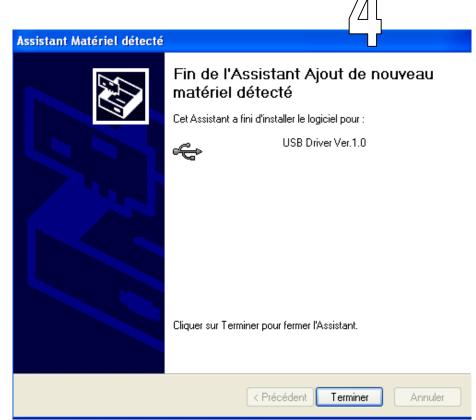
Veuillez patienter pendant que l'Assistant installe le logiciel...





USB driver installation









MTP05 Functionalities

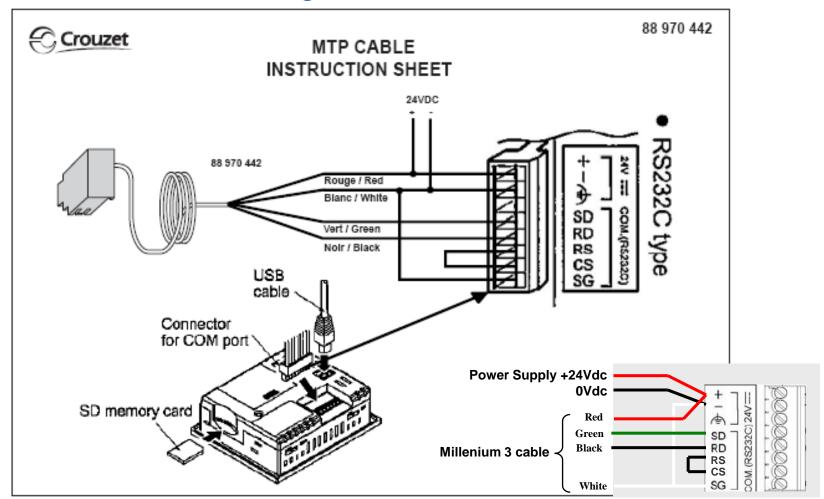
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The data exchange cable Millenium3 ⇔ MTP05









MTP05 Functionalities

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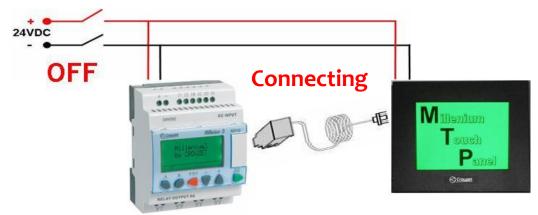
MTPWIN

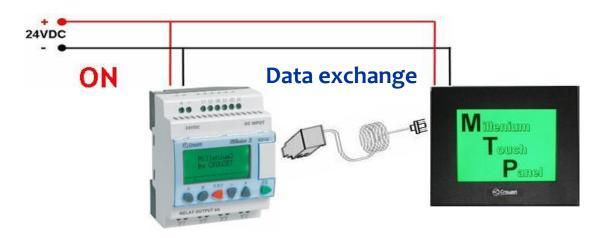
Commisioning M3+MTP05 Links to
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Wiring for use / data exchange

The power <u>must be</u> disconnected whenever inserting or extracting the Millenium3 - MTP05 data exchange cable!









The various MTP05 functionalities

- Read/write Word Bit
- Recipe management
- Alarms
- Piloting MTP05 by M3
- Reading the status
- Reading/writing the M3 clock
- Internal clock
- Changing the page (program)
- Line Graphs and Bargraphs
- Bitmaps and Scrolling messages
- <u>Bitmaps</u>
- Scrolling messages
- Conditions/comparator
- Password management



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BASICS

- Addressing
 - » Example
 - » Address area
 - BSLIN
 - BSLOUT
 - Configurating the address zone to pilot MTP
 - » Internal address area (MTP)
 - » External address area (M3)
 - Details of the area used by M3





Definitions:

SLIn = Serial Link In \rightarrow

Function block that allows M₃ to <u>read</u> 8 words by using the M₃ programming port.

 $SLOut = Serial Link Out \rightarrow$

3 blocks with 8 words each can be used (addresses 1-8, 9-16, 17-24)

□ SL Out Function block that allows M₃ to <u>write</u> 8 words by using the M₃ programming port.

3 blocks with 8 words each can be used (addresses 25-32, 33-40, 41-48)

 $M_3 \rightarrow Millenium_3$

 $MTPo5 = Millenium Touch Panel \rightarrow Screen of the M₃$

MTPWIN → Programming software of the MTPo₅

WSLIN → Word address in MTPWIN related to an SLIn function block

WSLOUT → Word address in MTPWIN related to an SLOut function block

BSLIN → Bit address in MTPWIN related to an SLIn function block

BSLOUT → Bit address in MTPWIN related to an SLOut function block

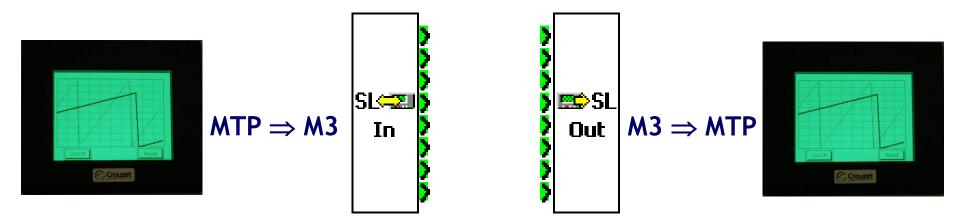




MTP05 Software Internal Commi-**MTPWIN Data** sioning M3 + MTP05 Glossary Functiona-Addressing **Address Backup** Introduction M3+MTP05 lities **Zone Programs**

Addressing

Words and Bits are used for the data exchange between MTP05 and M3.



Word address area:

Millenium3: SLIn 1 - 24 ⇒ MTPWIN: WSLIN 1 - 24

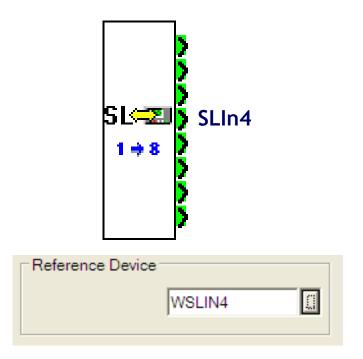
Millenium3: SLOut 25 - 48 ⇒ MTPWIN: WSLOUT 25 - 48



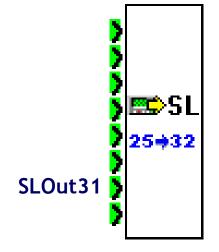


Word addressing example

M3: SLIn4 ⇒ MTPWIN: WSLIN4



M3: SLOut31 ⇒ MTPWIN: WSLOUT31



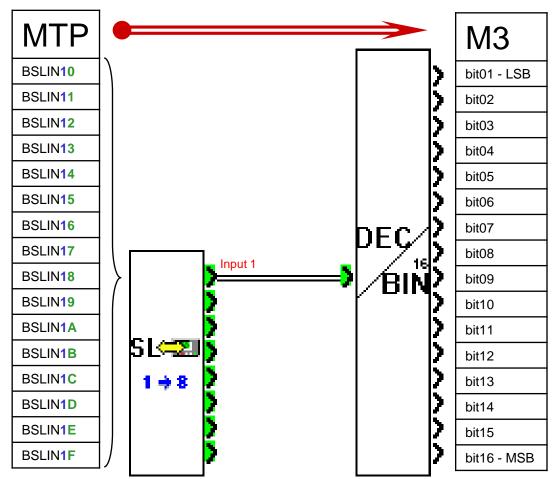






MTP05 Links to Internal **Software** Commi-**MTPWIN Data** sioning Functiona-M3 + MTP05 Glossary Addressing **Address Backup** Introduction M3+MTP05 and Wiring lities Zone **Programs**

Addressing a bit - BSLIN







Software Installation and Wiring MTP05 Functionalities

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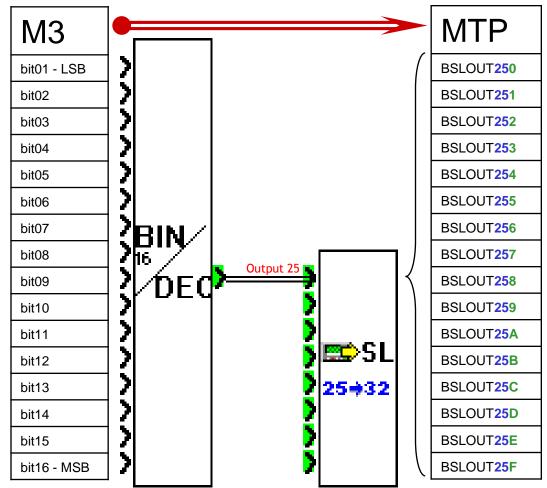
Data M3 -

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M3 + MTP05 Glossary

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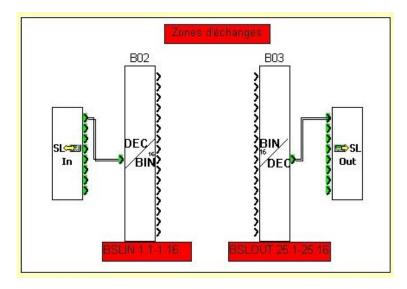
Addressing a bit - BSLOUT







Addressing bits in M3 is done with these function blocks:



How to address a bit in MTPWIN:

The bits (BLSOUT or BSLIN) are described like this: N word + N°bit

Example: To work with bit 15 on SLOut12, it will be noted as BSLOUT12E.

The address area ranges from 1 to 48 and is defined as follows:

Bit SLIn 1.1 - 24.16 of M3 \Rightarrow BSLIN 10 to 24F in the MTPWIN



Bit SLOut 25.1 - 48.16 of M3 \Rightarrow BSLOUT 250 to 48F in the MTPWIN







MTPWIN - Untitled1

Software Installation and Wiring

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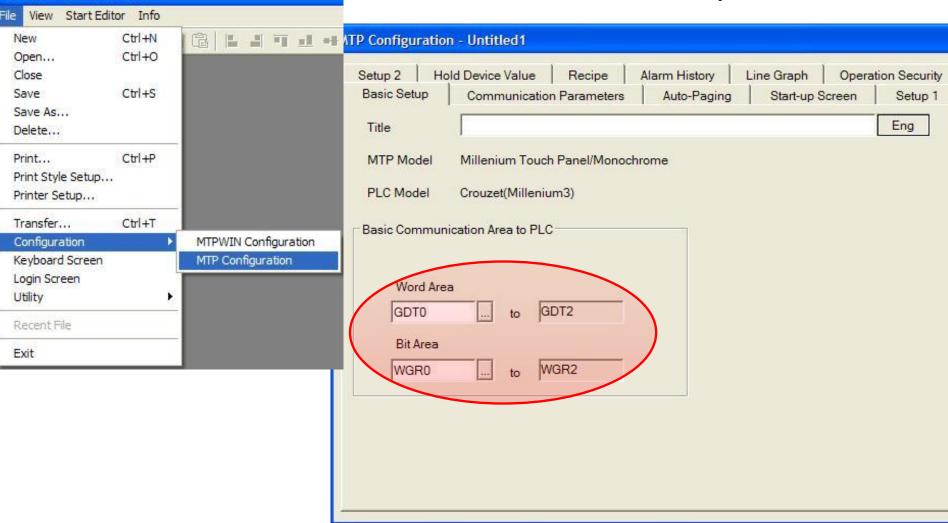
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Basic communication Area to PLC (M3):

Internal addresses reserved to pilot the MTP05







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Internal pilot area (MTP05):

N ex: GDT0	Change screen (hexadécimal)						
N+1 ex: GDT1 Not used							
N+2 ex:GDT2	Number of the screen actually in use (hexadécimal)						

Position	F	Е	D	С	В	Α	9	8	7	6	5	4	3	2	1	0
n +BIT ex: WGR0F = 1 (buzzer on)	Buzzer	Force view	Backlight on/off	Blinking backlight		Racklight color										
N+1 ex: WGR1		Not used														
N+2 ex:WGR2			·			Not u	used									

One can use keys in the screen to pilot the MTP05

Backlight colors (default = green)							
Bit	В	А					
Off	0	0					
Green	0	1					
Red	1	0					
Orange	1	1					





Software MTP05
Installation Function and Wiring lities

Functiona- Addressing

Internal Address Zone

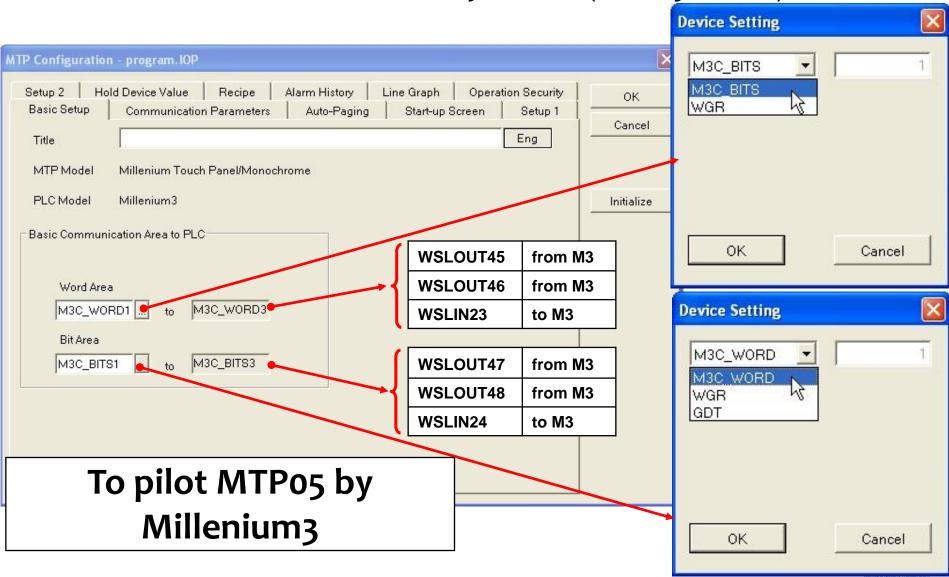
Introduction

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The M3 data zone reserved by default (not adjustable):





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WSLOUT47	from M3	Pilot the MTP05 screen
WSLOUT48	from M3	← Copy of WSLOUT47
WSLIN24	to M3	Use prohibited

Position (WSLOUT47)	F	Е	D	С	В	Α	တ	8	7	6	5	4	3	2	1	0
n +BIT ex: 47+F (buzzer)	Buzzer	Force view	Backlight On/Off	Flashing backlight	Dacklight color	Backlight color										

*		
Bit	В	Α
Off	0	0
Green	0	1
Red	1	0
Orange	1	1

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MTP05 Links to Internal Commi-Software **MTPWIN** Data sioning Functiona-Addressing M3 + MTP05 Glossary Installation **Address** Backup Introduction M3+MTP05 lities Zone **Programs**



MTPo₅ presentation





Millenium Touch Panel

PRESENTATION

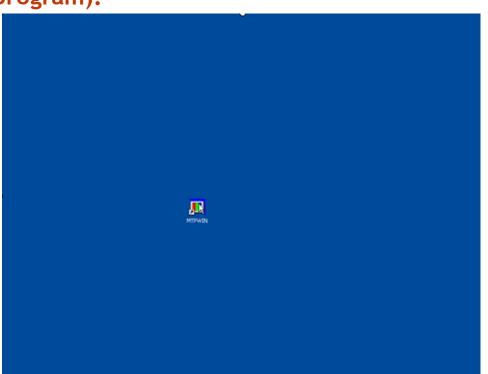
- Screen management
- First start with MTPWIN
- Creating a new program
- The important menus
- Transfer parameters





Launching MTPWIN the 1st time

(creating a new program).



Click on the image to show the video.



Links to

Programs

M3 + MTP05 Glossary





Software Installation and Wiring

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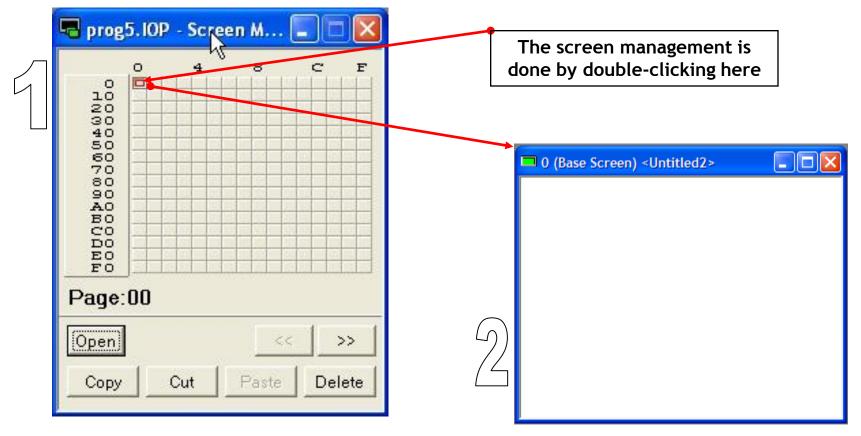
MTPWIN Introduction Commisioning M3+MTP05 Data Backup Links to

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Screen management

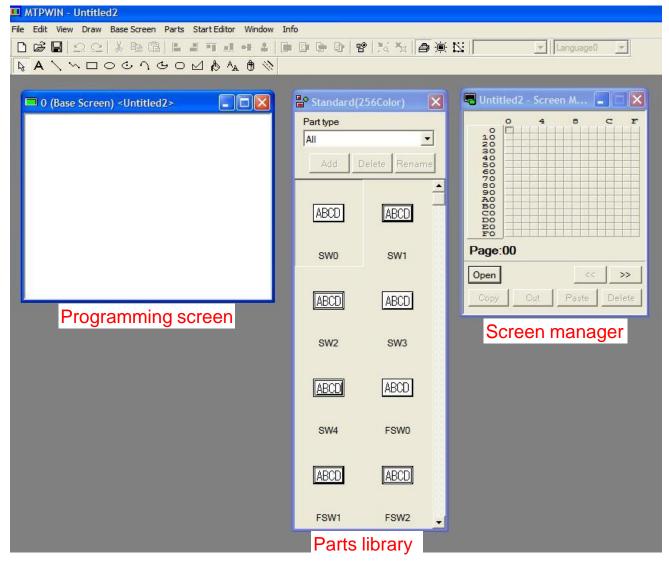








After opening a new program









Software Installation and Wiring

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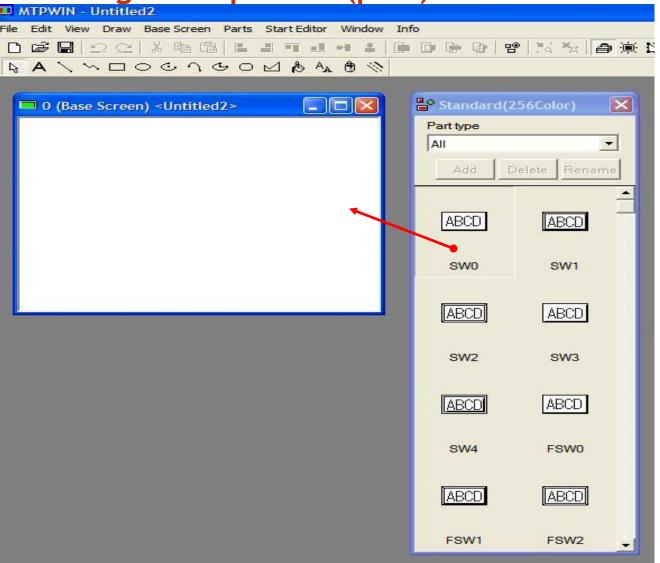
Commisioning M3+MTP05

Data Backup Links to

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Placing a component (part) on the screen





To place a part on the screen, click on the part with the left mouse key, hold the key, drag the part to the screen and release the key where you want to place it. (Drag and drop) Like with the Millenium3 software.





Software Installation and Wiring

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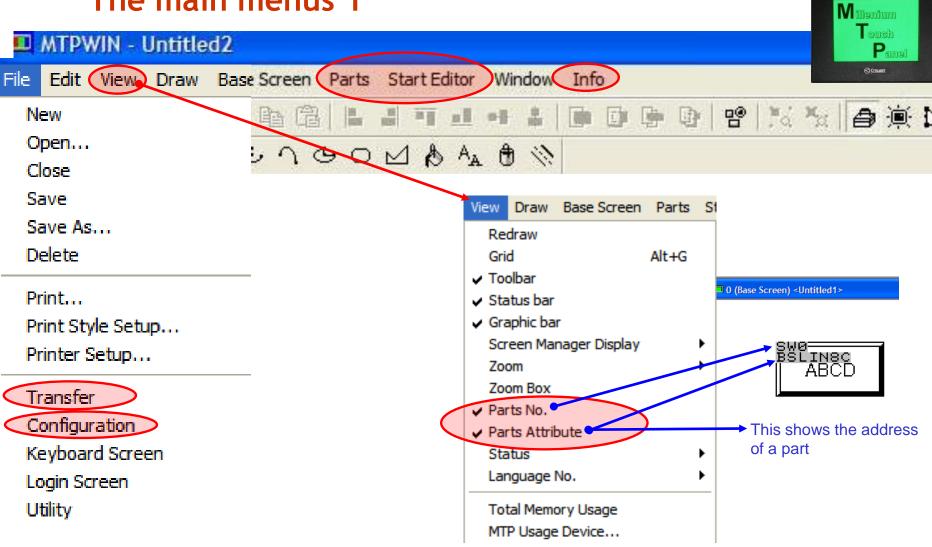
MTPWIN Introduction

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FSW2

Addressing

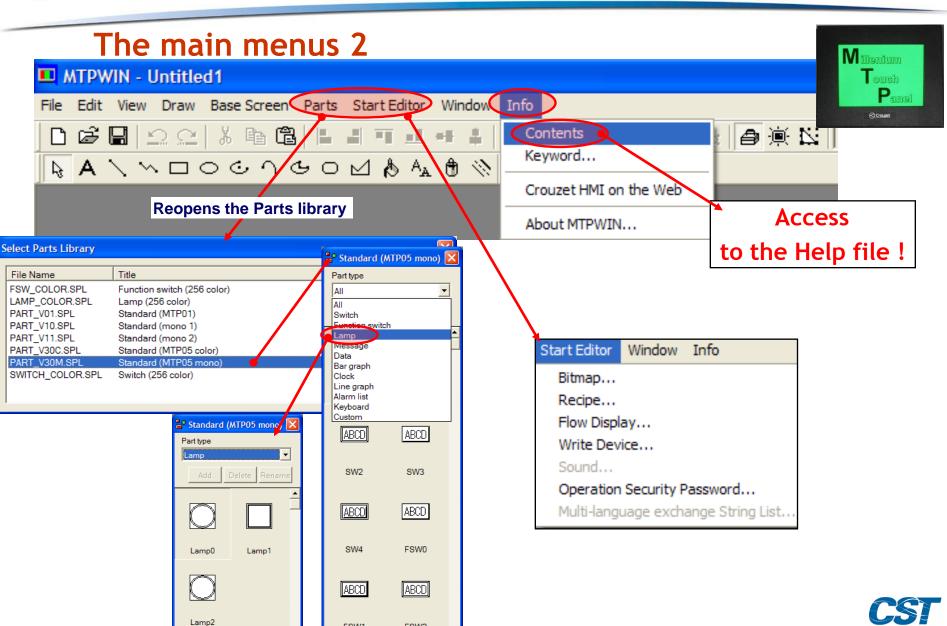
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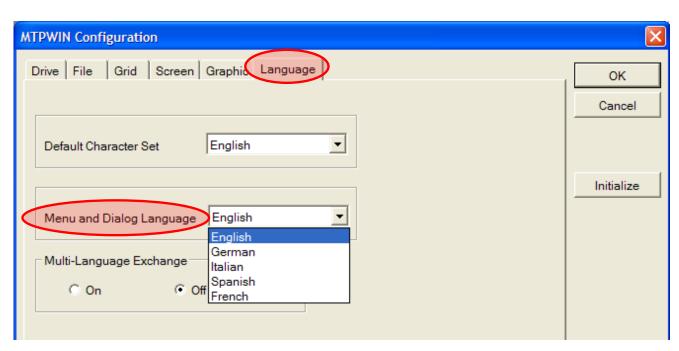
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MTPWIN configuration menu











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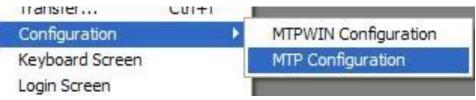
Commi-

sioning

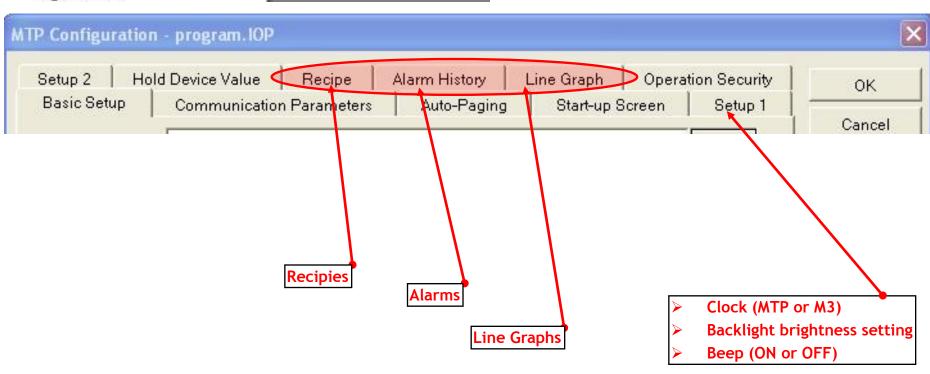
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MTP configuration menu







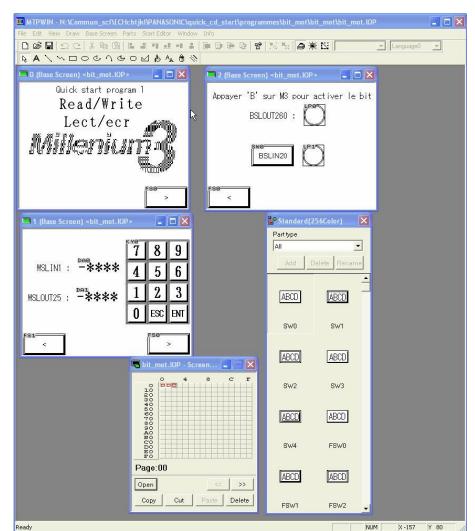




Data Backup

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Transfer parameters and program transfer



M illenium

Tick here to see the video



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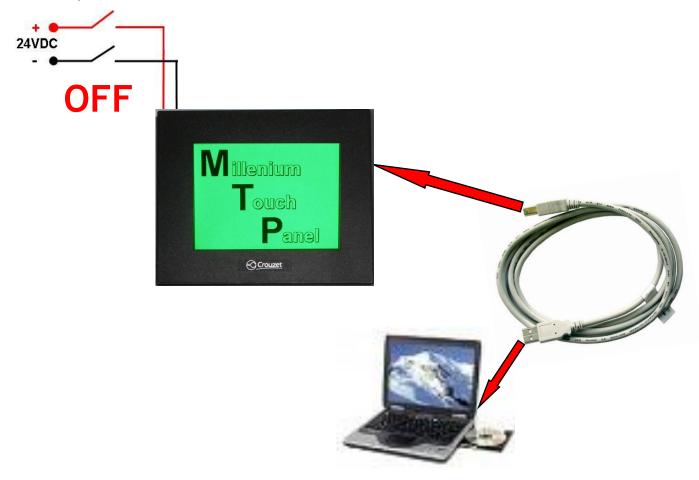
Programs



Wiring for program transfer $PC \Rightarrow MTP05$

The power <u>must be</u> disconnected whenever inserting or extracting the USB cable into/from MTPo5!









MTP05 Software Functiona-Installation and Wiring lities

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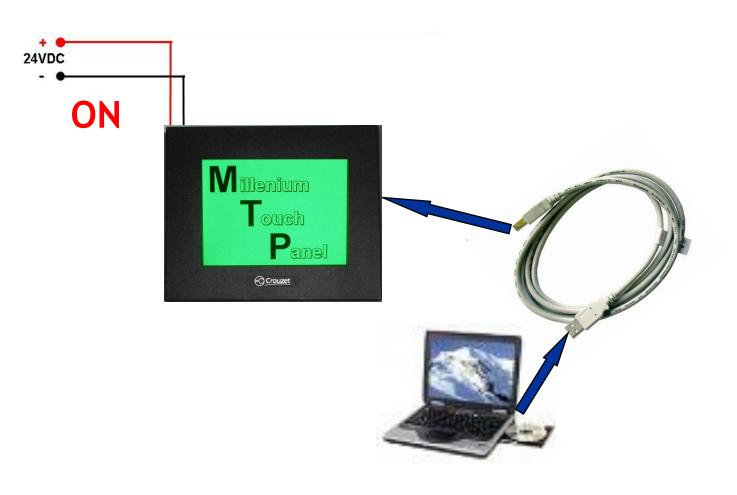
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Links to M3 + MTP05 Glossary **Programs**

Program transfer PC ⇒ MTP05









Software Installation and Wiring

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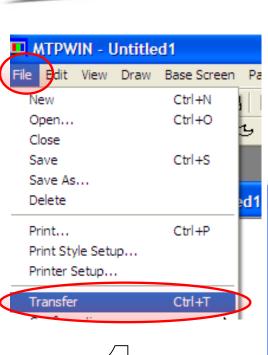
MTPWIN Introduction

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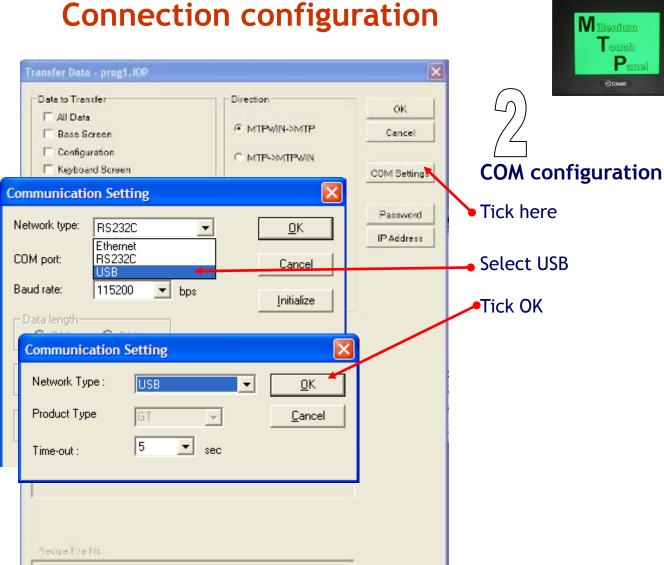
Data Backup

Links to M3 + MTP05 Glossary **Programs**

Millenium



File ⇒ Transfer





MTP05 Functionalities

Addressing

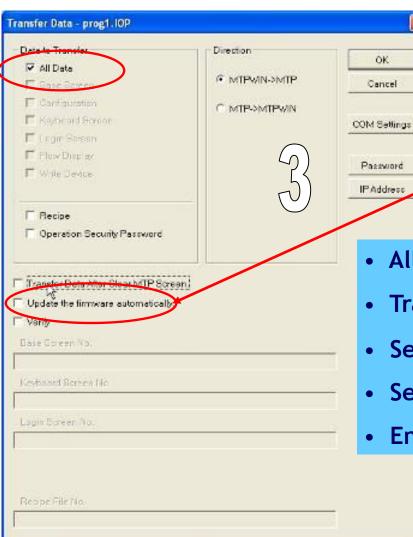
Internal Address Zone MTPWIN Introduction

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Data transfer PC ⇒ MTP05





Updates Firmware.

Important to mark on first data transfer.

- All data
- Transfer data after clear screen (optional)
- Select Recipe if necessary
- Select Password if necessary
- Enter Recipe File N°(s) if necessary



MTP05 Functionalities

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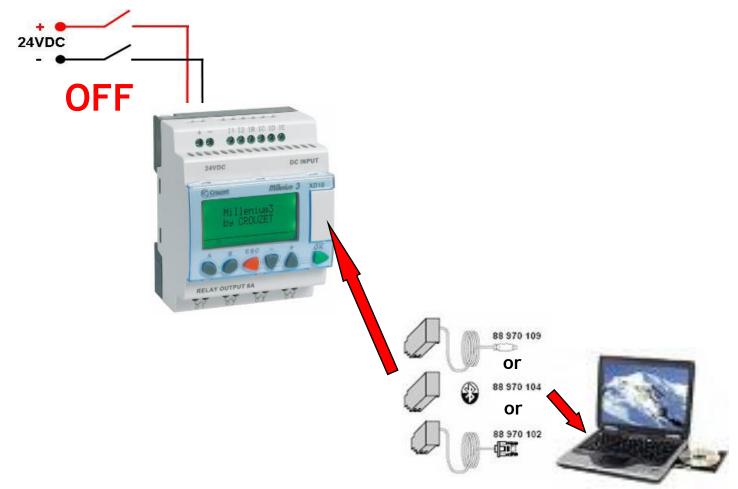
Commisioning M3+MTP05 Data Backup Links to
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Wiring for program transfer PC ⇒ M3



The power <u>must be</u> disconnected whenever inserting or extracting the M₃ programming cable!







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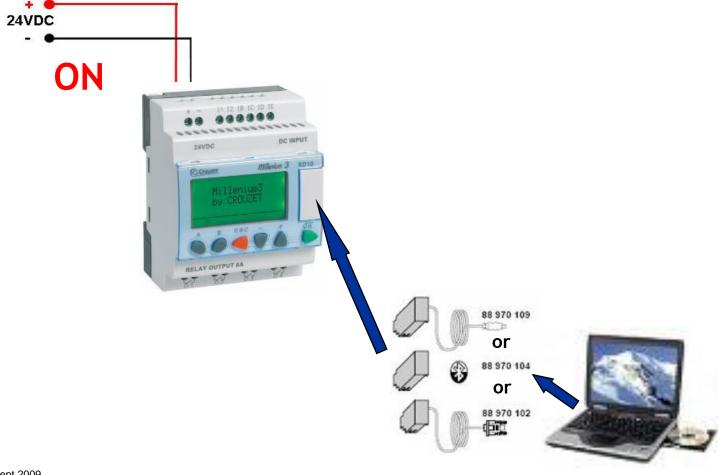
Commisioning M3+MTP05

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Program transfer PC ⇒ M3









🚰 Crouzet Logic Software M3

Software Installation and Wiring

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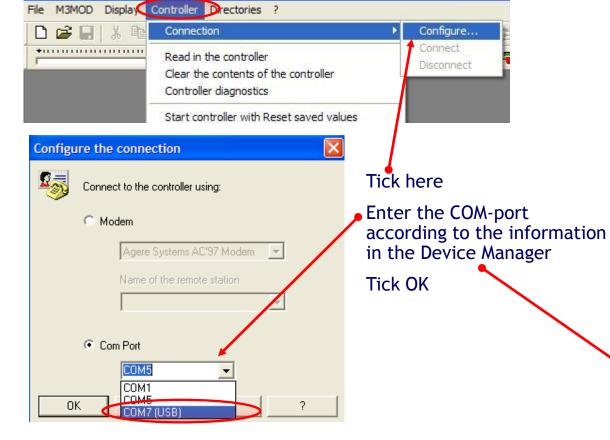
MTPWIN Introduction

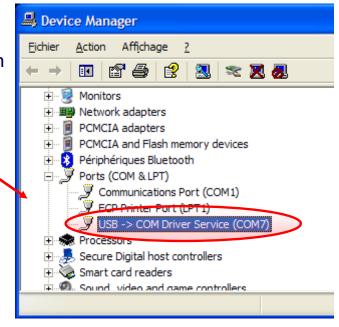
Commisioning M3+MTP05

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Connection configuration







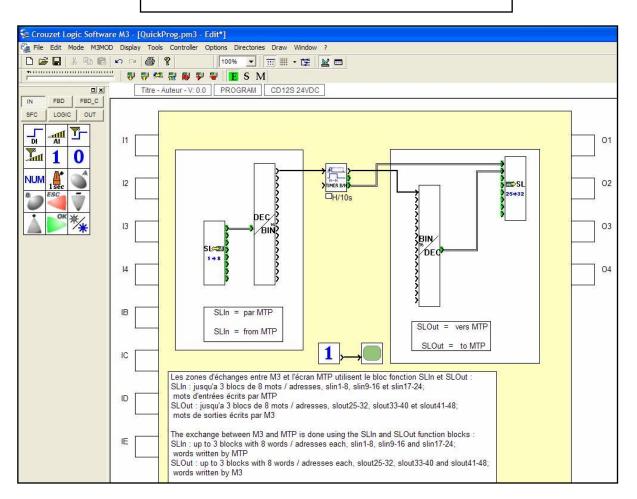




Transferring the program PC ⇒ M3 Millenium



Tick here to start the video.





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MTP05 Functionalities

Addressing

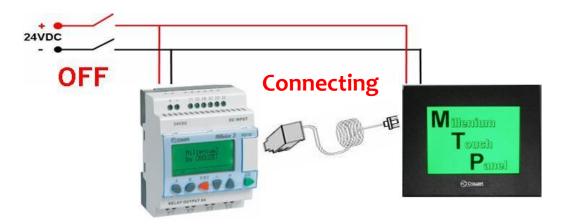
Internal Address Zone

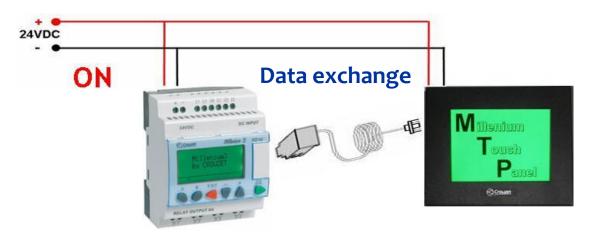
MTPWIN Introduction Commisioning M3+MTP05/ Data Backup Links to
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Wiring for use / data exchange Reminder

The power <u>must be</u> disconnected whenever inserting or extracting the Millenium3 - MTP05 data exchange cable!











Commissioning an M3 - MTP05 program example

Description of the program:

Read/write word and bit between M3 and MTP05.

- Read a word by MTP05

- Read a bit by MTP05

Write a bit to M3

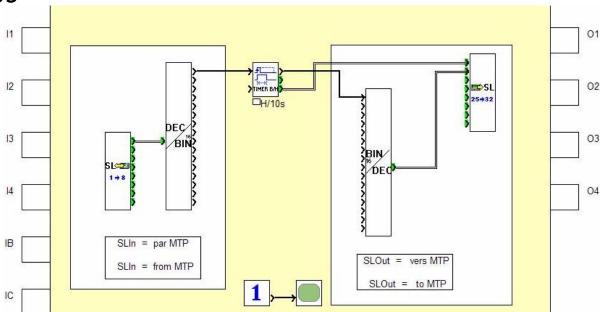
Links:

QuickProg.pm3



QuickProg.IOP









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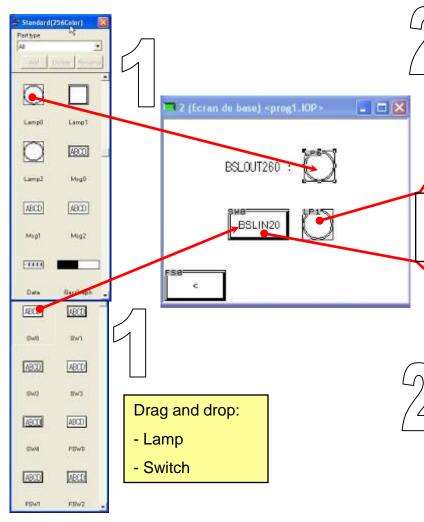
Commisioning M3+MTP05

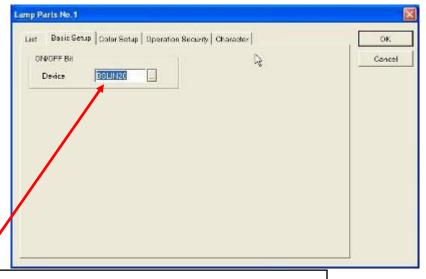
Data Backup Links to

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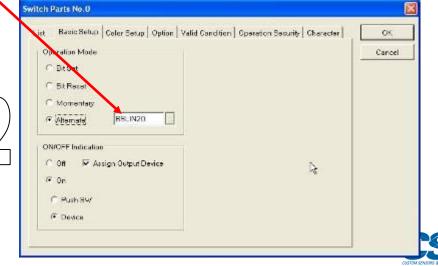
Programs







Double click on the parts to open the parameter windows





MTP05 Functionalities

Addressing

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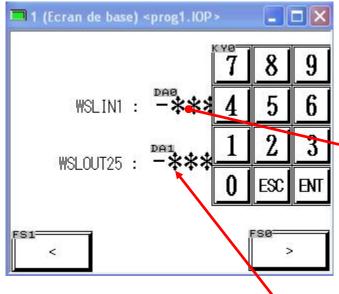
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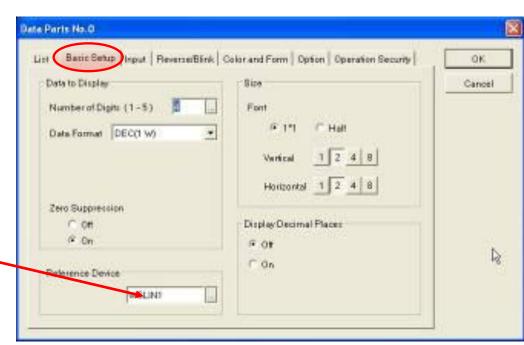
Commi-

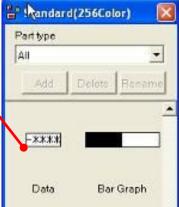
sioning

Links to M3 + MTP05 Glossary **Programs**

Read / write word











MTP05 Functionalities

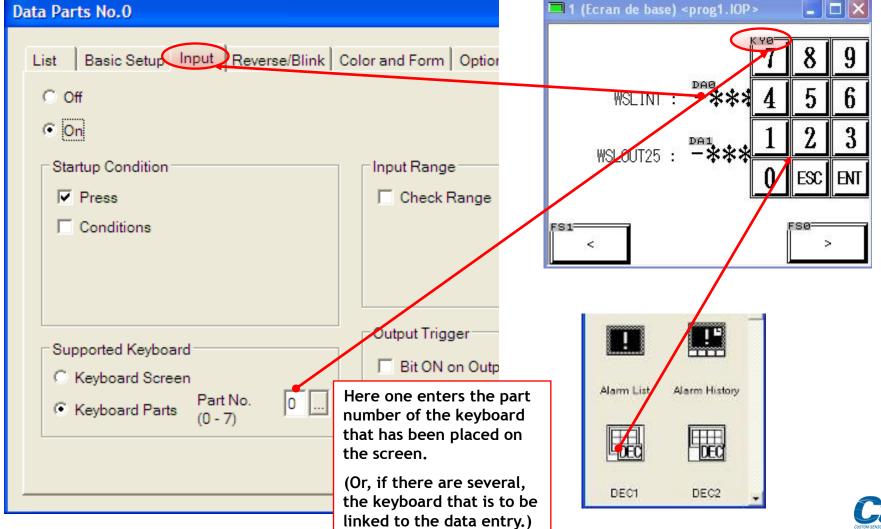
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Read / write word







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Recipe management



- Control area
- Read/write word
- Read/write bit





MTP05 Links to Internal Software Commi-**MTPWIN** Data sioning M3 + MTP05 Glossary Functiona-Addressing **Address** Installation **Backup** Introduction M3+MTP05 and Wiring lities **Zone Programs**

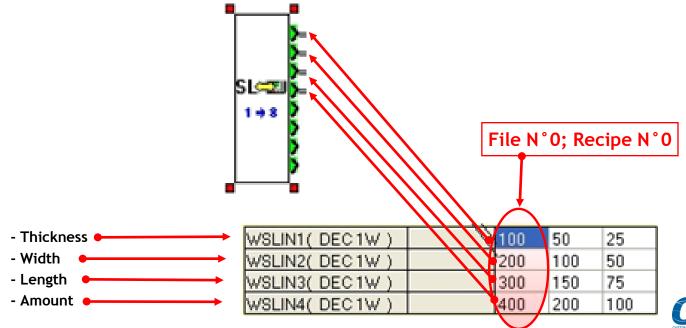
A recipe is a group of parameters that belong together.

<u>Description of a recipe:</u> A machine produces parts with different dimensions in different amounts. The parameters and amounts for each part, called recipies, are sent to Millenium3 by the MTP05 when a new production batch is started.

An example: - Thickness

- Width
- Length
- Number of pieces

All parameters should be sent simultaneously to Millenium3. By using MTP05 one can imagine to have several recipies (parameter groups). One can create an Excel table which can be imported by the MTPWIN software, allowing to transfer these recipies (parameter groups) to the MTP05 screen and from there to Millenium3.





MTP Configuration - program.IOP

Recipe

C Off

Hold Device Value

@ On

Control Device

Communication Parameters

WGR10

Recipe

Software Installation and Wiring

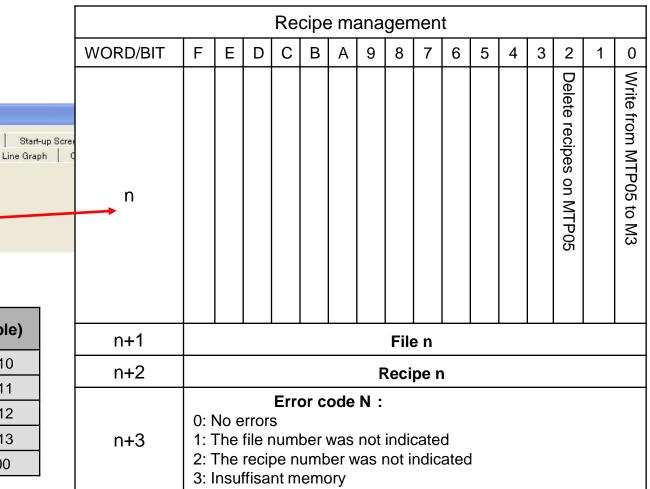
MTP05 >> Functionalities //

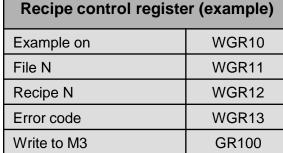
Addressing

Internal Address Zone

MTPWIN Introduction Commisioning M3+MTP05 Data Backup Links to
M3 + MTP05 Glossary
Programs

The M3 pilot area, adjustable:









MTP05 Functionalities

Addressing

Internal Address Zone MTPWIN Commisioning
Introduction M3+MTP05

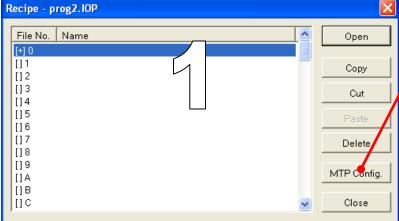
sioning Data
Backup

Links to
0 M3 + MTP05 Glossary
Programs

Creating recipies 1

Menu: Start editor ⇒ Recipe









MTP05 Functionalities

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Commisioning M3+MTP05

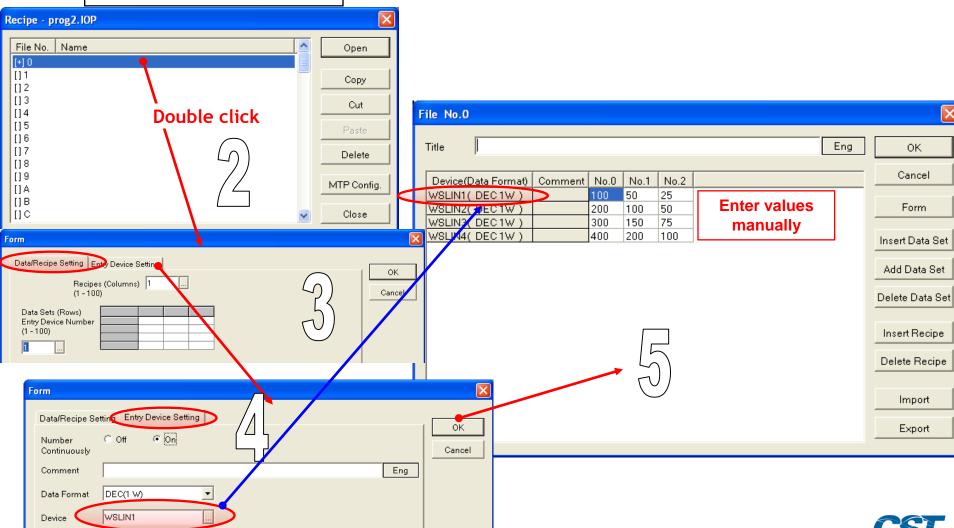
Data Backup Links to

M3 + MTP05 Glossary

Programs

Creating recipies 2

Menu: Start editor ⇒ Recipe





MTP05 Links to Software Internal Commi-**MTPWIN** Data sioning M3 + MTP05 Glossary Functiona-Addressing **Address Backup** Introduction M3+MTP05 lities **Zone Programs**

Recipe management

Commissioning an M3 program example

Program description:

Recipe management

Preselect values for counters sent by MTP05.

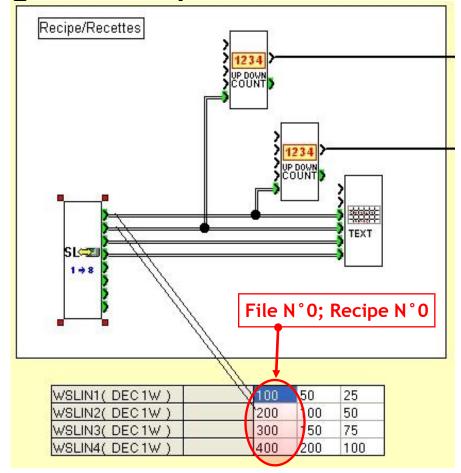
Links:

REC.pm3



recettes.IOP

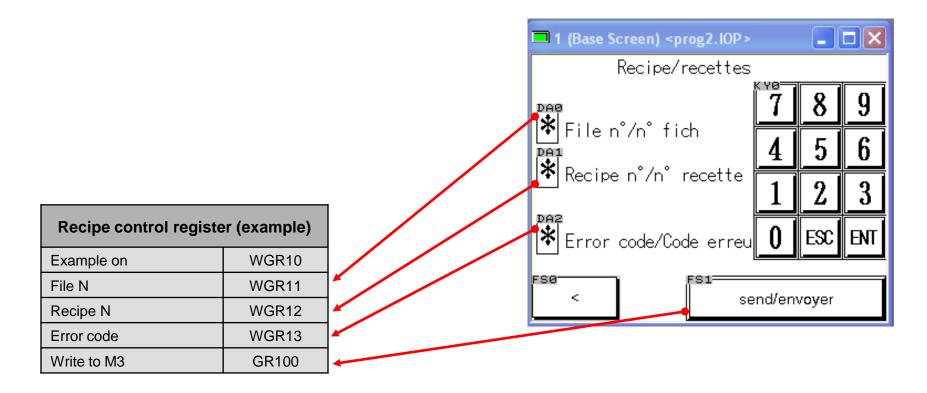








- Recipe management
 - Commissioning an M3 program example







MTPWIN Commisioning
Introduction M3+MTP05

sioning Data
Backup

Links to

M3 + MTP05 Glossary

Programs

Alarms



- Program example
- Settings
- Configuration





Alarm management

Program description:

Manage M3 alarms.

Activate alarms with the keys of the M3.

- Alarm history
- Alarm supervision

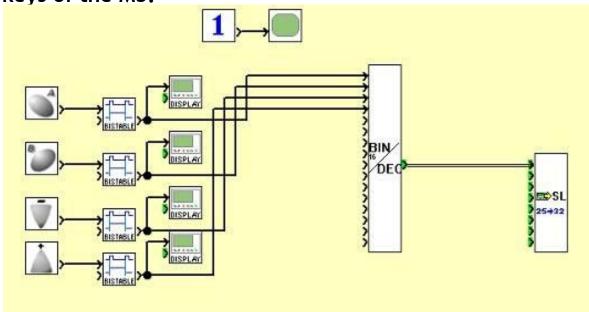
Links:

ALARM.pm3



allarm.IOP



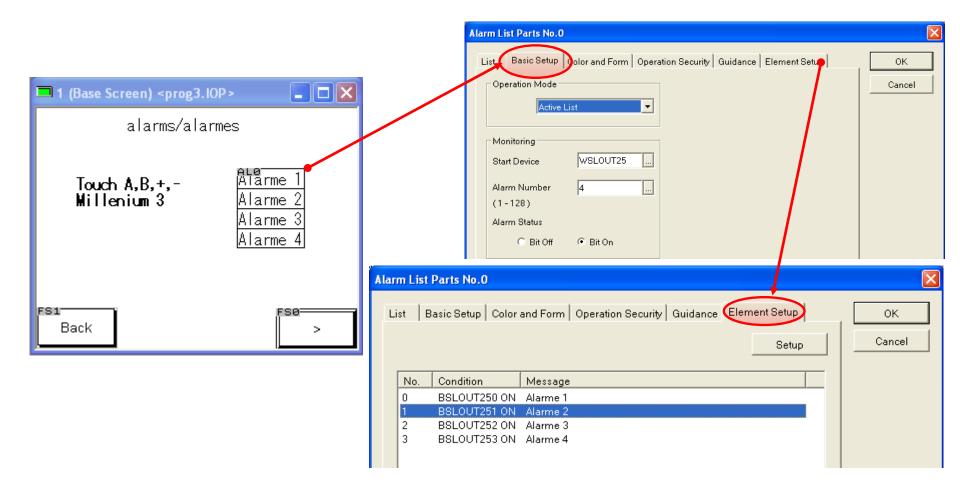








Alarm management 1







MTP05 Functionalities

Addressing

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Introduction M:

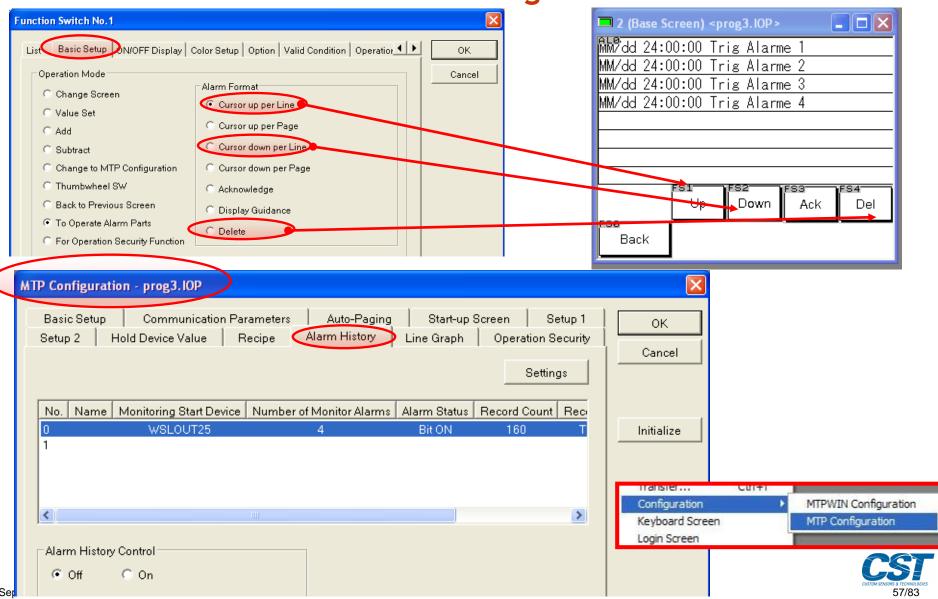
Commisioning M3+MTP05

Data Backup Links to

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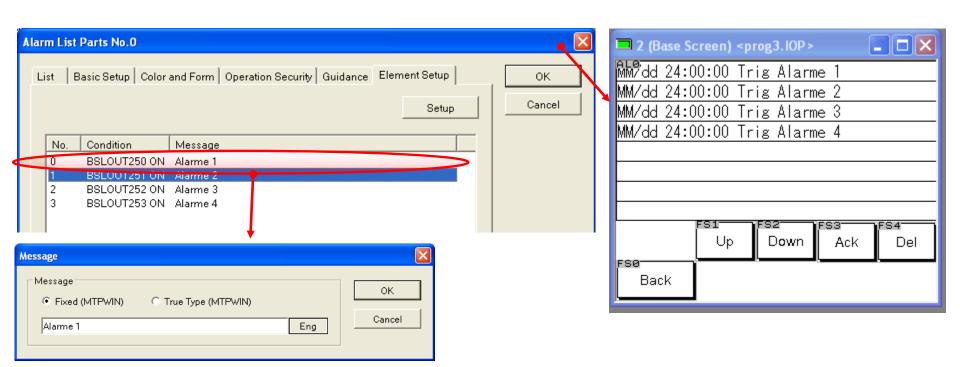
Alarm management 2







Alarm management 3

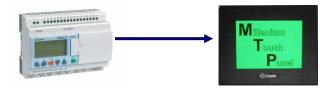






Pilot MTP05 by M3

- Example
- Configuration « Basic Communication Area »









a- Addressing

Internal Address Zone

MTPWIN Introduction Commisioning M3+MTP05 Data Backup Links to

M3 + MTP05 Glossary

Programs

- Communication buffer, Status M3, Clock M3
- Program description:
- Manage pages by M3.
- Buzzer activation with M3 keys.
- Manage MTP05 backlight colors with M3 keys.
- Activate flashing backlight with M3 keys.
- Read M3 status by MTP05.
- Read/write M3 clock

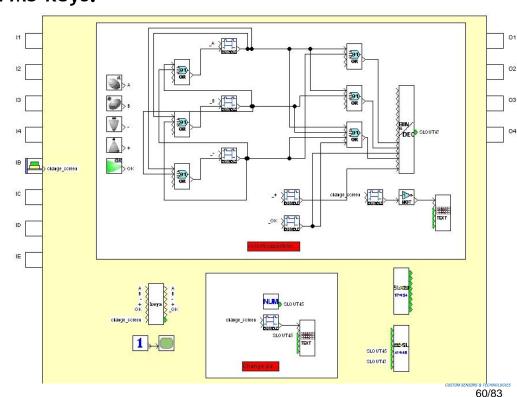
Links:

REG.pm3



Registre_de_controlle.IOP





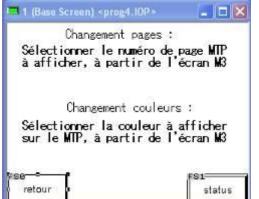




Device Setting

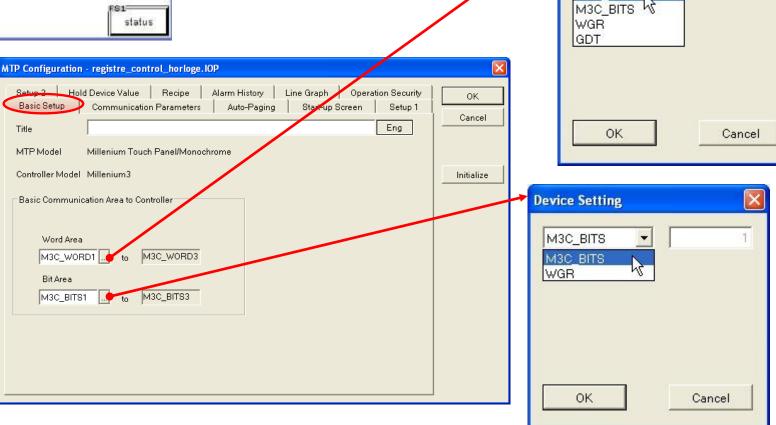
M3C_WORD

Page management using M3.



Buzzer activation using the M3 keys.

Managing the backlight color of MTP05 using the M3 keys. Activate the flashing backlight using the M3 keys.





Read/write M3 parameters



- **Read status**
- Read/write M3 clock
- Clock
- Change screen (see M3 and MTPWIN programs)

Links:

REG.pm3



Registre_de_controlle.IOP







MTP05 Functionalities

Addressing

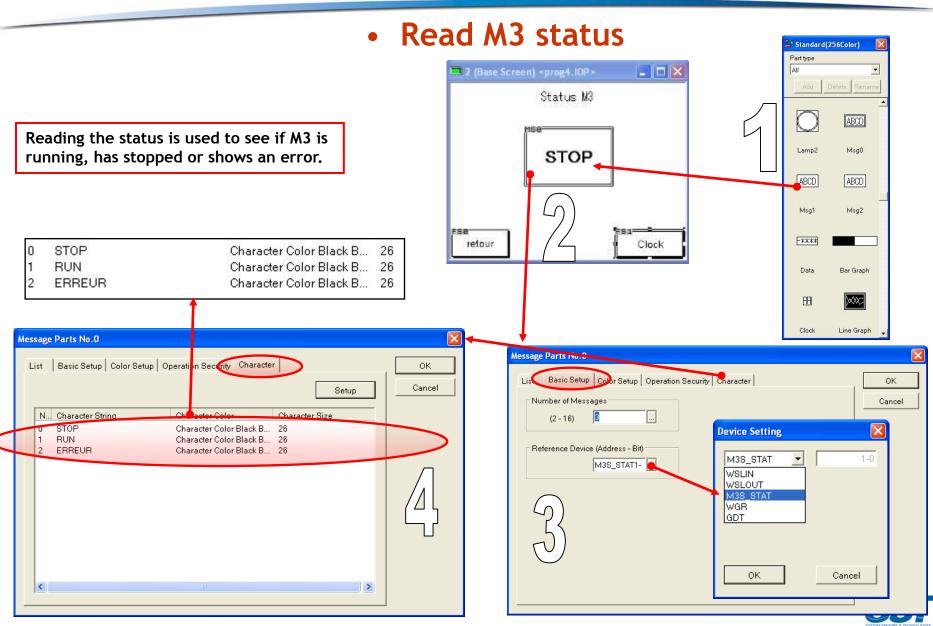
Internal Address Zone

MTPWIN Introduction

Commisioning M3+MTP05/ Data Backup Links to

M3 + MTP05 Glossary

Programs





MTP05 Functionalities

Addressing

Internal Address Zone

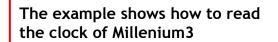
MTPWIN Introduction Commisioning Date M3+MTP05

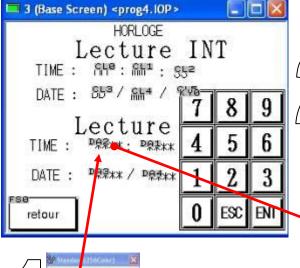
Data Backup Links to

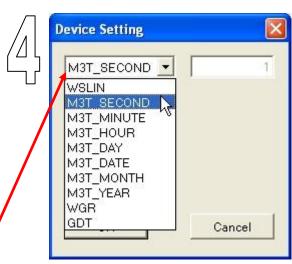
M3 + MTP05 Glossary

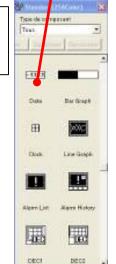
Programs

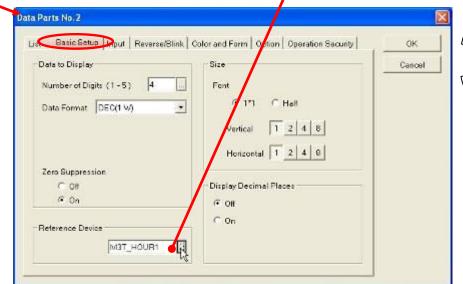
Read/write M3 clock















MTP05 Functionalities

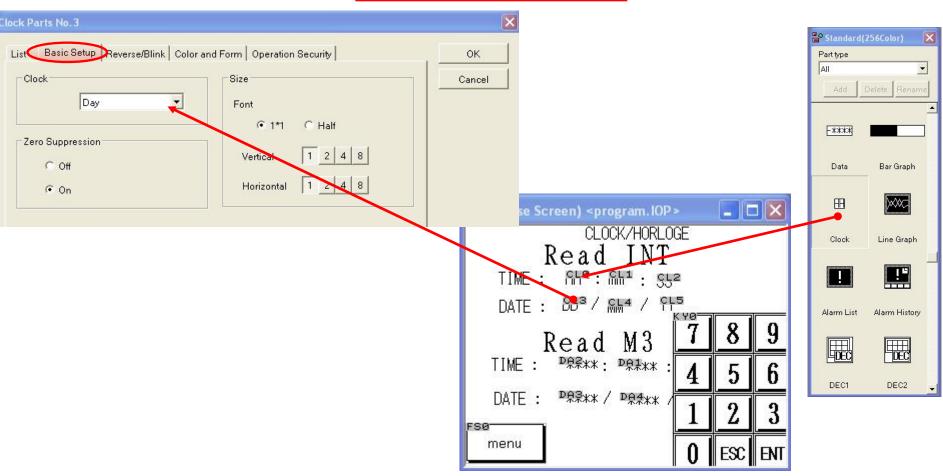
Addressing

Internal Address Zone

MTPWIN Introduction Commisioning M3+MTP05 Data Backup Links to
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Internal MTP05 clock

The example shows how to read the internal MTP05 clock







REMINDERS

Changing a page

To control the MTP05 with the keys, in- or outputs of M3 one has to use SLOut function blocks.

Parameters in the M3 program:

Buzzer activation, changing the backlight color or flashing is done on word SLOut47, bits 11,12,13,14 and 16.

To realise switching a screen page use word SLOut45.



The block SLIn17-24 must be present in the M3 program.

Link to parameters: page 22





Line Graph



- Program example
- Configuration
- Bargraph





MTP05 Links to Internal Commi-**Software MTPWIN** Data sioning M3 + MTP05 Glossary Functiona-Addressing **Address** Installation Backup Introduction M3+MTP05 lities Zone **Programs**

Line Graph

- Program description:
- Create a line graph using values from M3.
- Show a bargraph.

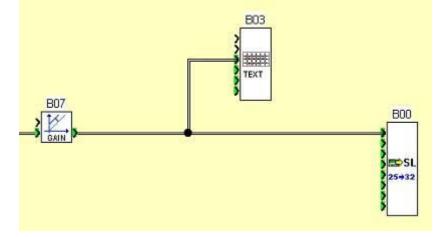
• Change the line graph by turning a potentiometer.

(WSLOUT25).

Links:

Line_graph.pm3









MTP05 Functionalities

Addressing

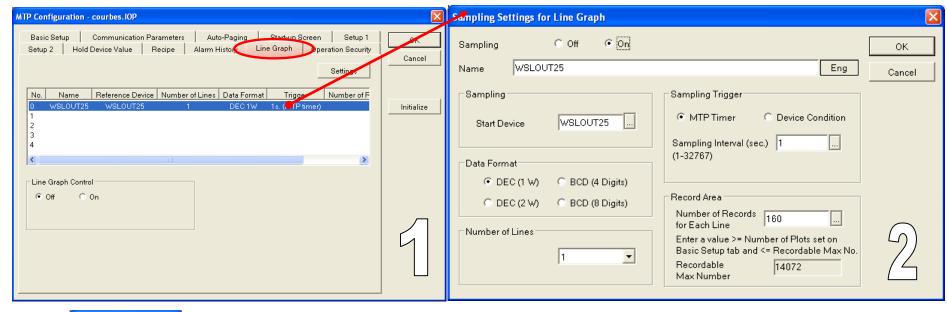
Internal Address Zone MTPWIN Introduction

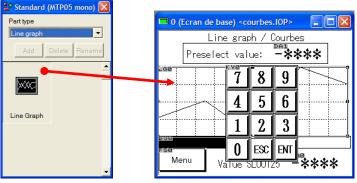
Commisioning M3+MTP05

Data Backup Links to
M3 + MTP05 Glossary
Programs

Line Graph 1

Go to: File \Rightarrow MTP Configuration \Rightarrow Line Graph









MTP05 Functionalities

Addressing

Internal Address Zone

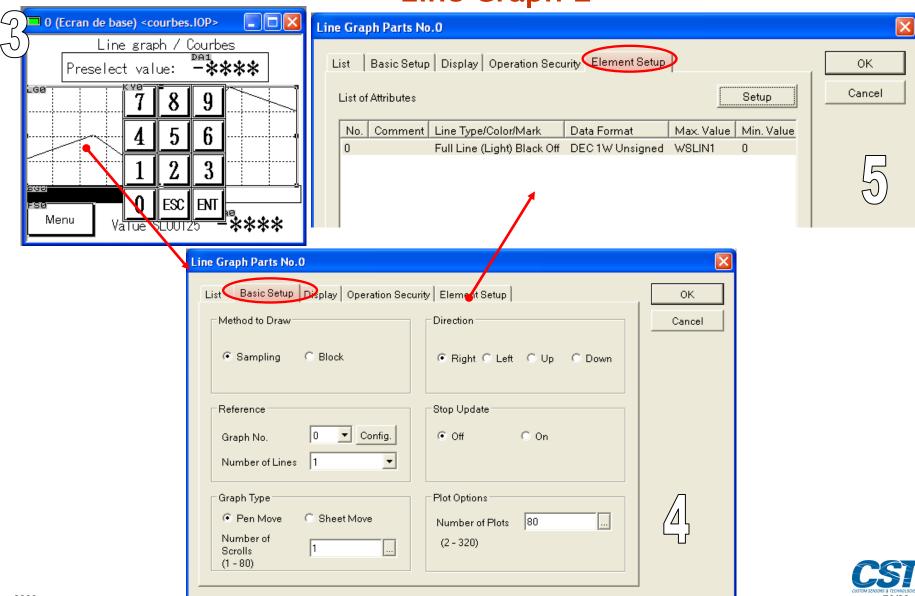
Commi-**MTPWIN** Introduction M3+MTP05

Data **Backup**

sioning

Links to M3 + MTP05 Glossary **Programs**







Links to MTP05 Software Internal Commi-**MTPWIN** Data sioning Installation and Wiring Functiona-Addressing Address M3 + MTP05 Glossary Backup Introduction M3+MTP05 lities Zone **Programs**

Bargraph

	Bar Graph Parts No.0			
Bos I (urner	l	Lis Basic Setup Deverse/Blink Co	olor and Form Display Numeric Operation Security	ок
Part type All Add Delete Rename ABCD ABCD	Courbes.IOP> Line graph / Courbes Preselect value: -**** 7 8 9 4 5 6	Device WSLOUT25 Data Format DEC 1W Unsigned	Fixed (1 - 65535) C Device Value	Cancel
Msg1 Msg2	1 2 3 0 ESC ENT Wenu Value SLUUI25 ****	Graph Type Direction	Min. Fixed (0 - 85534)	
Clock Line Graph		€ Right C Up C Left C Down	O Device Value	







MTP05 Functionalities

Addressing

Internal **Address** Zone

MTPWIN Introduction

Commisioning M3+MTP05

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Links to M3 + MTP05 Glossary **Programs**

Other functions 💢



- Example program
 - Bitmaps
 - Scrolling messages
- Comparator
- Password management
- Data backup







MTP05 Functionalities

Addressing

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Bitmap and scrolling messages

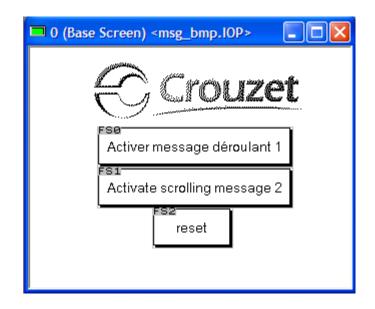
- Description of program:
- Insert a bitmap image
- Show scrolling messages

The scrolling messages are shown on all screens and are therefore not configurable per screen.

Links:

msg_bmp.IOP









MTP05 >> Functionalities //

Addressing

Internal Address Zone

MTPWIN Introduction

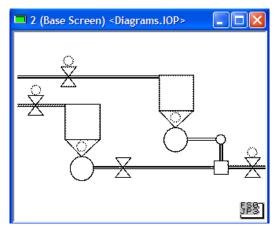
Commisioning M3+MTP05

Data Backup Links to
M3 + MTP05 Glossary
Programs



Bitmap 1

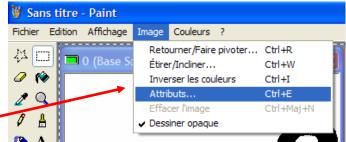
max. size 320x240 pixel

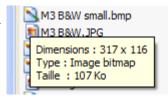


How to create a Bitmap:

- 1. Draw the schematics of ones application using powerpoint, etc., (or directly in the MTPWIN software) or copy any picture / diagram into PowerPoint, redimension it, tick right, 'save as image', .bmp.
- 2. To verify the size, copy to Paint, tick 'Image', 'Attributes', or move the mouse over the saved image to activate the pop-up.
- 3. Copy and paste it into an empty MTP05 screen, or enter it into the MTPWIN Bitmap Library.

Black and white diagrams and pictures produce the best results.









MTP05 Functionalities

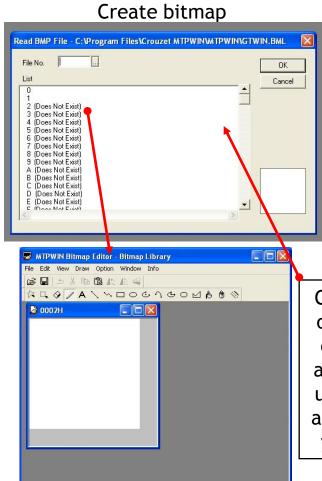
Addressing

Internal Address Zone MTPWIN Introduction Commisioning M3+MTP05

Data Backup Links to
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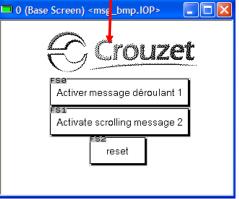
• Bitmap 2

max. size 320x240 pixel



Insert bitmap File No. OK Cancel 2 (Does Not Exist) 3 (Does Not Exist) 4 (Does Not Exist) Crouzet 5 (Does Not Exist) 6 (Does Not Exist) 7 (Does Not Exist) 8 (Does Not Exist) 9 (Does Not Exist) A (Does Not Exist) B (Does Not Exist) C (Does Not Exist) D (Does Not Exist) E (Does Not Exist) F (Does Not Exist)

Create your own library of images, and you can use them in any program you make.



Bitmap Video





MTP05 Functionalities

Addressing

Internal **Address** Zone

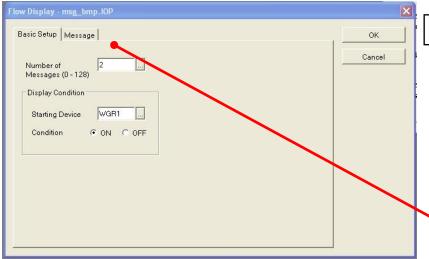
MTPWIN Introduction

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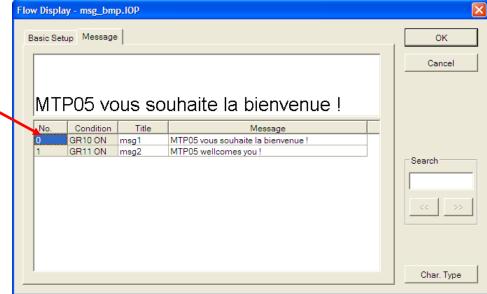
Links to M3 + MTP05 Glossary **Programs**

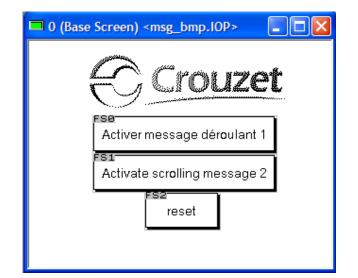
Scrolling messages



Go to: Start Editor ⇒ Flow Display

Message Video





Links:

msg_bmp.IOP







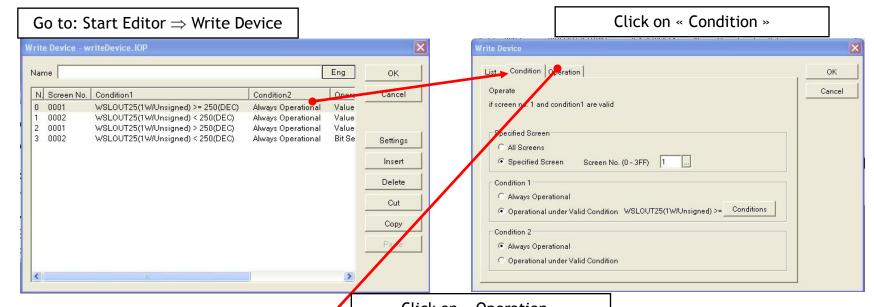
MTP05 Functionalities

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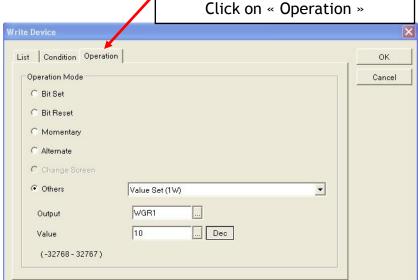
MTPWIN Introduction Commisioning M3+MTP05/ Data Backup Links to
M3 + MTP05 Glossary
Programs

Comparator



The « Write Device » will compare a value and, according to the result, carry out an operation on a word or bit.

One can apply the comparator to a specific screen or to all screens of a program.





Links:

write_device.pm3



writeDevice.IOP







MTP05 Functionalities

Addressing

Internal Address Zone MTPWIN Commisioning Introduction M3+MTP05 Data Backup Links to
M3 + MTP05 Glossary
Programs

Password management

Example:

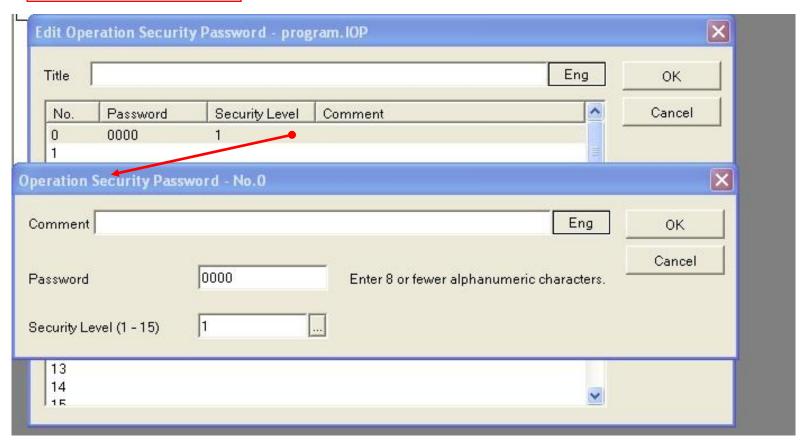
To access level 4

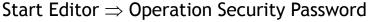
$$1\Rightarrow 2\Rightarrow 3\Rightarrow 4$$



The passwords can be used to secure certain parts or pages. One can set up several security levels.

One has to pass through all previous levels in order to access the security level defined for a part/page.









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Programs

Data backup MTP05

An SD card in FAT32 format inserted into the MTP05 can be used as data backup for the program and recipies.



Slot for SD memory card in FAT32 format



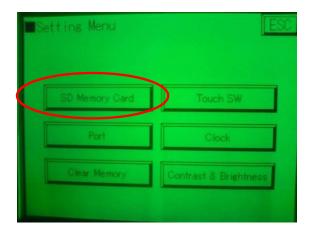


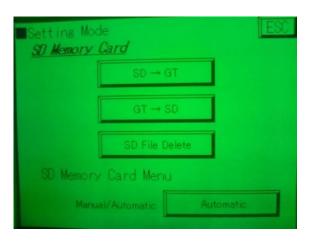
Data backup MTP05

The data backup (parameters, program and recipies) are saved in total, as one single file.



Press at least 2 sec. on the top left (1), then tipp the right top (2) and low (3), to access the Setting Menu.





Insert the SD card, then go to the MTP05 « Settings Menu » ⇒ « SD Memory Card ».

Here you can choose to write data to (SD \Rightarrow MTP) or read from (MTP \Rightarrow SD) MTP05.





MTP05 Functionalities

Addressing

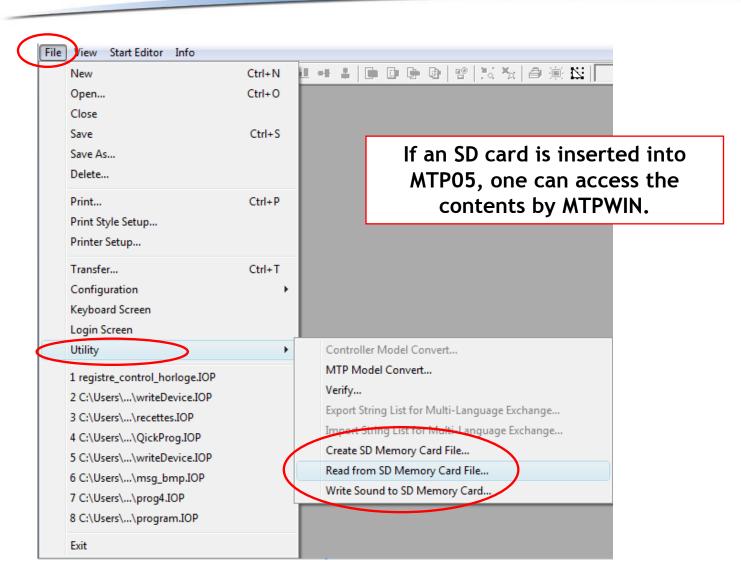
Internal Address Zone

MTPWIN Introduction

Commisioning M3+MTP05 Data Backup Links to

M3 + MTP05 Glossary

Programs







Links to M3/MTPWIN programs:

M3 Programs:

- Read/write bit / word
- Read/write bit / word Quick
- Recipe
- Alarms
- Pilot M3
- Line graph
- Conditions

MTPWIN Programs:

- Write/read bit / word
- Write/read bit / word Quick
- Recipe
- Alarms
- Pilot MTP with M3
- Line graph
- Passwords
- Conditions
- Bitmap & Scroll messages





MTP05 Functionalities

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Internal MTPWIN
Address Introduction

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Programs

Glossary

• Bit \Rightarrow logic status (1 or 0)

• Word \Rightarrow a 16 bit value

WGR ⇒ internal MTP05 register (Word)

• GDT ⇒ internal MTP05 register (Word)

• GR ⇒ internal MTP05 register (Bit)

WSLOUT ⇒ word/address on block SLOut M3

WSLIN ⇒ word/address on block SLIn M3

BSLOUT ⇒ bit of a word on block SLOut M3

• BSLIN \Rightarrow bit of a word on block SLIn M3

• M3 ⇒ Millenium3

• MTP05 \Rightarrow Millenium Touch Panel (screen of the M3)

