

Save/Restore Data Between a File and the PLC



Procedure for Saving PLC Data

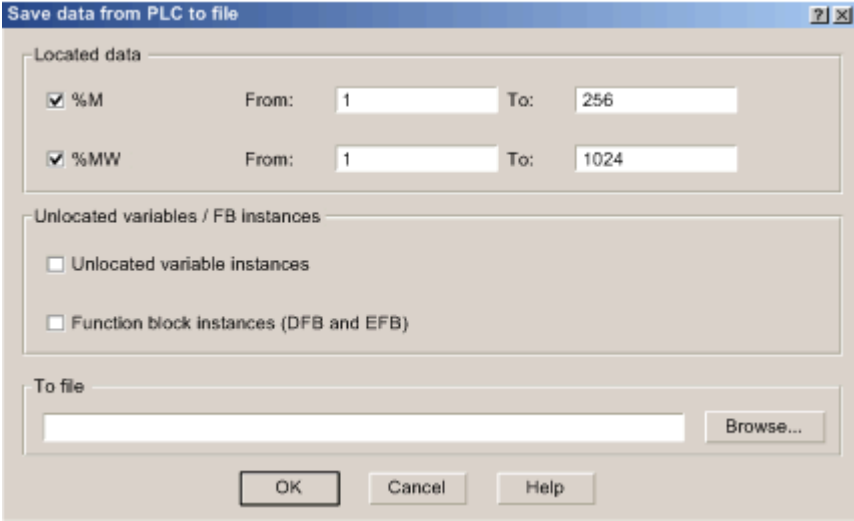
If the PLC is in RUN mode, the saving of data from the PLC to a file may need several application cycles and the data, in the file, may be desynchronized, which may affect application execution during restoration.

 **CAUTION**

UNEXPECTED BEHAVIOUR OF APPLICATION
Before saving the data, verify the impact of the save on the application execution.
Failure to follow these instructions can result in injury or equipment damage.

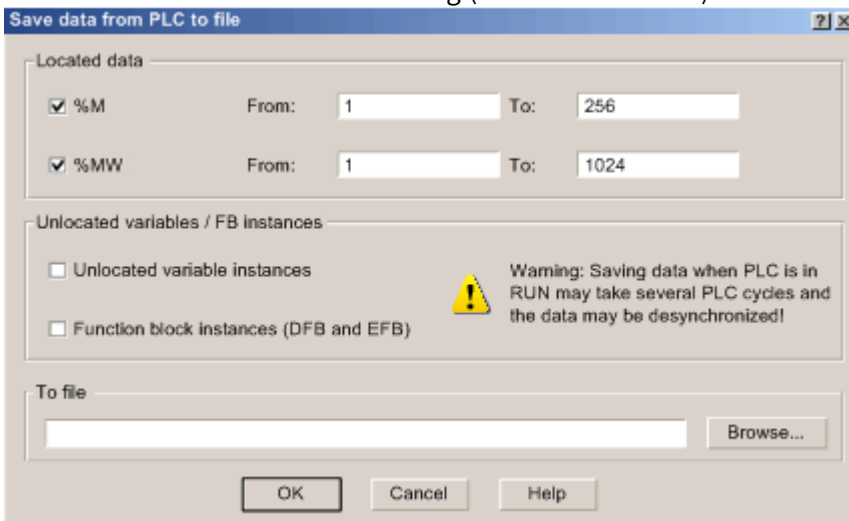
You must perform the following actions to save the data from the PLC to a file:

Step	Action
1	To enable the menu item Save Data from PLC to File , the following must be true: - The PLC is loaded with an application. - The PLC is in RUN or STOP mode.

	• Unity Pro is running and is connected to the PLC. • The Application built in Unity Pro is equal to those in the PLC. • The Application in Unity Pro is in the built state.
2	Activate the PLC → Save Data from PLC to File command. Result: The Save Data from PLC to File dialog (CPU in STOP mode) opens.  For more information, refer to the corresponding screen.
3	Using the checkboxes, select the data type(s) to be transferred. For located data you must also define the range of data to be transferred by entering the start and end address of the range.
4	Define the path and the name of the file to which the data is to be saved.
5	Confirm with OK .

Data Transfer Dialog for Transfers to a File

The **Save Data from PLC to File** dialog (CPU in RUN mode) is shown below:



The following table shows the parameters of the **Save Data from PLC to File** dialog.

Parameter	Description
Content	This field is used to define the type and range of the data to be transferred. The checkboxes are used to define the type of located data. From: and To: fields are used to define the range for located data. Default values: • %M and %MW checkboxes are checked

	• %M and %MW range is set to the PLC values • Unlocated variables instances and Function block instances (DFB and EFB) are not checked
To file	This field is used to define the path and name of the file.
Browse	This button can be used to browse the disk to define the file name and path.

Procedure for Restoring Data to PLC

If the PLC is in RUN mode, the restoring of data to the PLC from a file may need several application cycles and the data may be desynchronized, which may affect application execution.

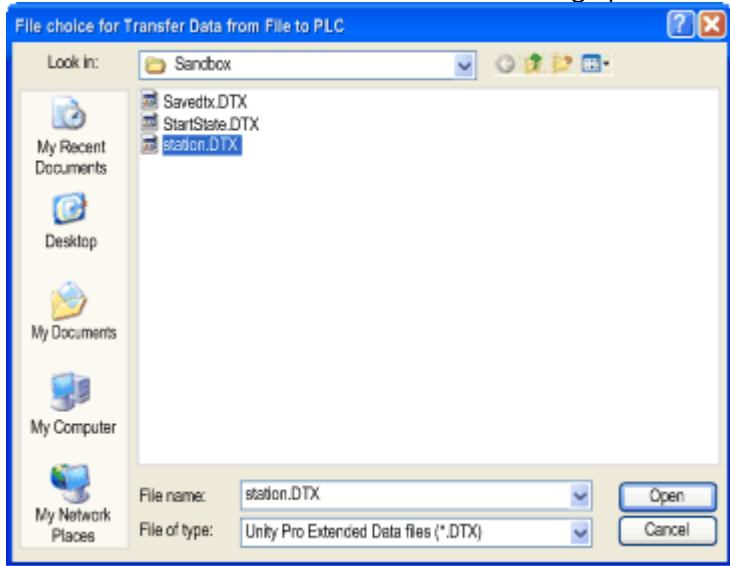
⚠ CAUTION

UNEXPECTED BEHAVIOUR OF APPLICATION

Before restoring the data, verify the impact of the store on the application execution.

Failure to follow these instructions can result in injury or equipment damage.

You must perform the following actions to restore the data from a file to the PLC:

Step	Action
1	To enable the menu item Restore Data from File to PLC, the following must be true: • The PLC is loaded with an application. • The PLC is in RUN or STOP status. • Unity Pro is running and is connected to the PLC. • The Application built in Unity Pro may be different than those in the PLC. • The Application in Unity Pro is built state.
2	Activate the PLC → Restore Data from File to PLC command. Result: The Restore Data from File to PLC dialog opens. 
3	Select the file to be restored to the PLC.
4	Confirm with OK .