AIDIAG Premium XL

DIAGNOSE, ANALYSE AND DEVELOP AUTOMATIC PROCESSES

:: Resolutions of case

Configure A Black Box >>
Prerequisites

- The AIDIAG Premium software must be installed on the station, it is the CD supplied with the Premium module. It includes two tools, the AIDIAG Premium configurator and the AIDIAG Premium Black Box Manager.

- The AIDIAG Premium XL (TSXCDY120) is installed in a Premium or Unity rack with at least the Run indicator lighted up and fixed:

<table>
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<th>Card status</th>
<th>Description</th>
<th>Note</th>
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<tr>
<td>RUN</td>
<td>Normal operation</td>
<td></td>
</tr>
<tr>
<td>RUN, SER, COM</td>
<td>Customized Black Box Mode</td>
<td>SER and COM alternatively flash</td>
</tr>
<tr>
<td>RUN, COM</td>
<td>Black Box mode disabled</td>
<td>COM flashing</td>
</tr>
<tr>
<td>RUN, IN</td>
<td>Initialization stage</td>
<td>INI flashing</td>
</tr>
<tr>
<td>RUN, SER, IN</td>
<td>Holding initialization stage</td>
<td>SER fixed and INI flashing</td>
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The indicators ERR and I/O must not be lighted up.

- The IP adress of the AIDIAG Premium XL is correctly configured and the module is linked to the Ethernet TCP/IP network.

The module is also reachable through the Xway communication protocols (Unitelway, Fipway, XIP). Nevertheless the network performances are clearly inferiors than TCP/IP protocol.

Procédures :

Configure a Black Box

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<td>Prerequisites</td>
<td><img src="image" alt="Black Box" /></td>
<td>You read the prerequisites.</td>
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To add a Black Box to the structure:
- Select the roots module, or the father one of the Black box to create,
- Click on the icon “Add a Black Box”

You can also use the contextual menu

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To define the address, two ways:
- The automatic search of AIDIAG Premium module on the available networks
- The manual entry; network selection; then address of the AIDIAG Premium XL module.
5/13 Validation

Once the information entries are correct, validate with the OK button.

The Black Box manager then connects to the AIDIAG Premium XL module, this stage can last some minutes according to the network chosen.

6/13 Creation achieved

Once the Black Box manager connected successfully to the AIDIAG Premium XL, it imports your PLC configuration.

By default, the AIDIAG Premium XL module monitors all Boolean data of the PLC; to monitor more of them it is necessary to parameterize the configuration.

7/13 Selection of the I/O modules to monitor

The module selection is fully done from the contextual menu.

Once a modification is given to the configuration, the Black Box icon changes:

That means that the configuration must be synchronised.
Selection of the internal words to monitor

Do a right click on the **MW** icon, then select the command: "Add/delete MW variables".

In the table is located the list of the %MW of the PLC. If you filled in the mnemonics in the program, the Black Box manager get them automatically, which helps the selection.

Synchronization of the configuration

Do a right click on the Black Box to monitor, then select the Synchronize function.
Synchronization

A window containing the list of the modifications made opens.

Select the synchronization way:
- Accept: transfers the configuration to the Black Box,
- Abort: gets back to the old configuration

Transfer of the configuration to the Black Box

The transfer of a new configuration to the Black Box reinitialize the AIDIAG Premium XL module, all recordings not imported will be lost.

Module AIDIAG Premium XL ready

Once the synchronization over, the AIDIAG Premium XL module starts recording evolutions.

End of procedure