

**WAGO I/O SYSTEM 750**

**Library for  
Building Automation**

**Module Descriptions for  
KNX IP Master**

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Every conceivable measure has been taken to ensure the correctness and completeness of this documentation. However, as errors can never be fully excluded, we would appreciate any information or ideas at any time.

We wish to point out that the software and hardware terms as well as the trademarks of companies used and/or mentioned in the present manual are generally protected by trademark or patent.

**WAGO-I/O-PRO CAA Library for KNX Communication**

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## Important Notes

To ensure fast installation and start-up of the units, we strongly recommend that the following information and explanations are carefully read and adhered to.

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### Intended Use

For each individual application, the components are supplied from the factory with a dedicated hardware and software configuration. Modifications are only admitted within the framework of the possibilities documented in the manuals. All other changes to the hardware and/or software and the non-conforming use of the components entail the exclusion of liability on the part of WAGO Kontakttechnik GmbH & Co. KG.

Please direct any requirements pertaining to a modified and/or new hardware or software configuration directly to WAGO Kontakttechnik GmbH & Co. KG.

## Scope of Validity

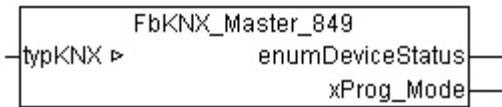
This application note is based on the stated hardware and software of the specific manufacturer as well as the correspondent documentation. This application note is therefore only valid for the described installation. New hardware and software versions may need to be handled differently.

Please note the detailed description in the specific manuals.

# Modules

## KNX Master Controller 750-849

WAGO-I/O-PRO CAA Library Elements		
<b>Category:</b>	Building Services	
<b>Name:</b>	FbKNX_Master_849	
<b>Type:</b>	Function <input type="checkbox"/>	Function block <input checked="" type="checkbox"/> Program <input type="checkbox"/>
<b>Name of library:</b>	KNX_IP_750_849_01.lib	
<b>Applicable to:</b>	750-849	
<b>Libraries used:</b>	SysLibGetAddress.lib WAGOLibKNXDevice.lib KNX_Standard.lib	
<b>Input / output parameters</b>	<b>Data type:</b>	<b>Comment:</b>
typKNX	typKNX	KNX transmit and receive data (internal)
.dwCRC	DWORD	Checksum via addresses
.bHW_type	BYTE	Display of modules/controller master
.bError	BYTE	Error byte
.typModule_646	typModule_646	Data table for communication with other KNX function blocks
.bNumber	BYTE	Number of linked slave modules
.bCurrent_Pos	BYTE	Number of slave currently being queried
.dwSendAddr	DWORD	Reference address for DPT variable to be sent
.dwReceAddr	DWORD	Address of DPT variables being received
..xBusy	BOOL	Master is busy
.xNewData	BOOL	Flag of new data from module
.xSendOnReset	BOOL	Initiate SendOnReset
.xSyncReady	BOOL	Synchronization completed
.bBytesToSend	BYTE	Number of bytes to be sent
.arDATA_OUT	ARRAY	Data array for output user data
.arDATA_IN	ARRAY	Data array for input user data

Output parameters:	Data type:	Comment:
enumDeviceStatus	enumDeviceStatus	Output of status information KNX_DEVICE_NOT_INIT KNX_DEVICE_OK KNX_APP_NOT_RUNNING KNX_APPLICATION_LOADED KNX_APPLICATION_START_LOADING KNX_APPL_CRC_OK KNX_APPL_CRC_ERR KNX_APPL_SYS_ERR KNX_DEVICE_KBUS_ERROR KNX_DEVICE_ETHERNET_ERROR
xProg_Mode	BOOL	Module in programming mode
<b>Illustration:</b>		
		
<b>Function description:</b>		
<p>The <b>FbKNX_Master_849</b> function block is used for communication with the KNX IP Controller 750-849.</p> <p>The function block detects information of the other KNX function blocks in the program and provides synchronization with the controller. The information from the KNX function blocks are provided in the form of data table via the <b>"typKNX"</b> variable.</p> <p>The function block must only be used once for each KNX controller 750-849. All other KNX function blocks must be linked with this function block via the input variable <b>"typKNX"</b>.</p> <p>The output variable <b>"enumDeviceStatus"</b> transmits status information via the KNX controller. The output <b>"xProg_Mode"</b> indicates whether the KNX controller is in the programming mode.</p>		
<b>Important:</b>		
<p>All KNX function blocks that are linked by the variable <b>"typKNX"</b> must be called up in cycles within the same program task.</p>		



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