WAGO-I/O-SYSTEM PE

Libraries for Building Automation

Function Block Description for the Library DMX_01.lib

Last change 15.07.2015



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WAGO-I/O-PRO V2.3 Library for the DMX Protocol

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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 this document. All other changes to the hardware and/or software and the non-conforming use of the components entail the exclusion of liability on 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 from the specific manufacturer, as well as the associated 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.

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Communication

DMX Master Block (FbDMX_652_Master)

WAGO-I/O-PRO V2.3 Library Elements			
Category:	Building Automation		
Name:	FbDMX_652_	_Master	
Type:	Function	Funktion block X Program	
Name of library:	DMX_01.lib		
Applicable to:	See Release	Note	
Libraries used:	SerComm.lib Serial_Interfa	ce_01.lib.	
	T		
Input parameter:	Data type:	Comment:	
xEnable	BOOL	Enables the function block. Default setting = TRUE	
bCOM_PORT_NR	ВҮТЕ	No. of the serial interface used Default setting= 2 1 -> Internal service port 2 -> 1. connected serial module 3 -> 2. connected serial module	
iNumberOfChannel	INT	Number of channels to be transmitted Value range = 1 - 254 Default setting: 45	
xBlackOut	BOOL	TRUE-> Shutdown mode active	
Input/output parameters:	Data type:	Comment:	
abDMX_Values	ARRAY [1DMX_MA X_CH] of BYTE	Array of DMX values. DMX_MAX_CH=512	
Output parameter:	Data type:	Comment:	
xReady	BOOL	Communication status TRUE = No transmission process FALSE = Transmission process is activated	

WAGO-I/O-PRO V2.3 Library Elements			
bError	BYTE	0x00	Error from Sercom.lib: No error
		0x01	This library is not supported by the firmware.
		0x02	COM port outside of valid range.
		0x03	This function block entity is not yet assigned to a COM port.
		0x04	This function block entity is assigned to a different COM port.
		0x05	COM port already open.
		0x06	COM port already closed.
		0x07	COM port not opened.
		0x08	A write operation is still active (COM1).
		0x09	These transfer parameters are not supported by the COM port.
		0x0A	Current I/O module settings could not be read.
		0x0B	This library version does not support temporary setting of communication parameters.
		0x0C	I/O module could not be initiatlized.
		0x0D	Error during writing of data to the I/O module FIFO memory.
		0x0E	Contents of FIFO memory were not sent (continuous sending).
		0x0F	Internal error

Function description:

The **FbDMX_652_Master** function block transmits values to a DMX line. Communication takes place via a 750-652 RS-485 interface module. This function block may be used only once per installed serial module.

The "abDMX_Values" array contains the DMX values to be transmitted. An array index is available for each DMX channel. The DMX values are transmitted in cycles as soon as the "xEnable" is set to TRUE.

The maximum number of channels to be transmitted can be limited at the "iNumberOfChannel" input.

The "xBlackOut" input activates the Blackout mode.

- "xBlackOut" = TRUE -> Blackout mode is activated. The values for all of the DMX channels remain at zero.
- "xBlackOut" = FALSE -> Blackout mode is not activated. The DMX values that have been enetered become effective.

The fieldbus controller detects and assigns the port numbers of the connected serial I/O modules independently from the left beginning with COM2. The service interface on the controller is always COM1. To address the function block to the proper serial module, the corresponding number (e.g. "2" for COM2) must be entered as a constant at the "bCOM_PORT_NR" input.

The "xReady" output signals whether the module is active. As long as "xReady" is FALSE, no further action is taken by the function block.

In the event of a communication error, a corresponding error code is output on the "bError" output.

Light Effects

RGB Color Mixer (FbRGB_ColourMixer)

WAGO-I/O-PRO V2.3 Library Elements			
Category:	Building Automation		
Name:	FbRGB_Colo	urMixer	
Type:	Function	Funktion block X Program	
Name of library:	DMX_01.lib		
Applicable to:	See Release	Note	
Library used:	SerComm.lib		
	Serial_Interfa	ce_01.lib.	
Input parameter:	Data type:	Comment:	
bValueRed	BYTE	DMX value, channel "red"	
bValueGreen	BYTE	DMX value, channel "green"	
bValueBlue	BYTE	DMX value, channel "blue"	
bValueIntensity	BYTE	DMX value, channel "intensity"	
iChannelRed	INT	Address for "red" channel	
iChannelGreen	INT	Address for "green" channel	
iChannelBlue	INT	Address for "blue" channel	
iChannelIntensity	INT	Address for "intensity" channel	
xWrite	BOOL	A rising edge writes the entered values to the corresponding channels.	
xAutoWrite	BOOL	DMX values are refreshed automatically.	
Input/output parameters:	Data type:	Comment:	
abDMX_Values	ARRAY	Array of DMX values.	
	[1DMX_M AX_CH] of BYTE	DMX_MAX_CH=512	
Output parameter:	Data type:	Comment:	
Output parameter.			
-	-	-	

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FbRGB_ColourMixer

⊣bValueRed

⊣bValueGreen

⊣bValueBlue

-|bValueIntensity

iChannelRed

-liChannelGreen

-liChannelBlue

-iChannelIntensity

-x/Vrite

xAutoWrite

-abDMX_Values ⊳

Function description:

The **FbRGB_ColourMixer** function block is used for setting the color of an RGB light.

The individual color components are assigned at the "bValueRed", "bValueGreen", "bValueBlue" and "bValueIntensity" inputs.

The addresses for the corresponding DMX channels are assigned at the "iChannelRed", "iChannelGreen", "iChannelBlue" and "iChannelIntensity" inputs.

The values are transmitted to the DMX line by a rising edge at the "xWrite" input.

If the input variable "xAutoWrite" is set to TRUE, the inputs "bValueRed", "bValueGreen", "bValueBlue" and "bValueIntensity" are monitored for value shifting. As soon as a value changes this is transmitted to the DMX line.

This function block is used together with the communication module (see Page 6). Synchronization of the two entities is achieved via the "abDMX_Values" array. Therefore, the communication module and function block must be linked to each other. The function block can write values to the DMX line via this link.

Save RGB Color Palette (FbRGB_SaveColourPalette)

Category:	Building Auto	Building Automation	
Name:		FbRGB SaveColourPalette	
Type:	Function		
Name of library:	DMX 01.lib	1 12 12 13 13 13 13 13	
Applicable to:	See Release	2 Note	
Library used:	SerComm.lik		
Library usea.	Serial Interf		
	Ochai_mich	acc_01.iib.	
Input parameter:	Data type:	Comment:	
bValueRed	BYTE	DMX value, channel "red"	
bValueGreen	BYTE	DMX value, channel "green"	
bValueBlue	BYTE	DMX value, channel "blue"	
xColour_1	BOOL	A rising edge will result in the color	
		palette being saved in adwColourPalette[1]	
xColour_2	BOOL	A rising edge will result in the color palette being saved in adwColourPalette[2]	
xColour_3	BOOL	A rising edge will result in the color palette being saved in adwColourPalette[3]	
xColour_4	BOOL	A rising edge will result in the color palette being saved in adwColourPalette[4]	
xColour_5	BOOL	A rising edge will result in the color palette being saved in adwColourPalette[5]	
xColour_6	BOOL	A rising edge will result in the color palette being saved in adwColourPalette[6]	
xColour_7	BOOL	A rising edge will result in the color palette being saved in adwColourPalette[7]	
xColour_8	BOOL	A rising edge will result in the color palette being saved in adwColourPalette[8]	
xColour_9	BOOL	A rising edge will result in the color palette being saved in adwColourPalette[9]	
xColour_10	BOOL	A rising edge will result in the color palette being saved in adwColourPalette[10]	
xReset	BOOL	A rising edge will result in the entire contents of the adwColourPalette array being cleared.	
Input/output paramete	ers: Data type:	Comment:	

WAGO-I/O-PRO V2.3 Library Elements		
adwColourPalette	ARRAY [110] of DWORD	Color palette array.
Output parameter:	Data type:	Comment:
-	-	-

Graphical illustration: FbRGB SaveColourPalette bValueRed bValueGreen bValueBlue xColour 1 xColour 2 xColour 3 xColour 4 xColour 5 xColour 6 xColour 7 xColour 8 xColour_9 xColour_10 xReset adwColourPalette ⊳

Function description:

Ten (10) color palettes can be stored using the FbRGB_SaveColourPalette function block.

The individual color palettes can be configured via the "bValueRed", "bValueGreen" and "bValueBlue" inputs.

At a rising edge at the "xColour_1" to "xColour_10" inputs, the color palette is saved in the corresponding element of the "adwColourPalette" array.

The color palettes are saved in the "adwColourPalette" array. Representation is as a hexadecimal character in the order B (Blue) G (Green) R (Red). Yellow, for example, in this form has the value 16#00FFFF and white the value 16#FFFFFF.

Using a rising edge at the "xReset" input, the contents of the "adwColourPalette" array can be deleted.

Note

The variables at the "adwColourPalette" input should be declared as RETAIN PERSISTENT so that the list of color palettes is retained after a controller reset and after a download.

Calling Up an RGB Color Palette (FbRGB_RecallColourPalette)

WAG	O-I/O- <i>PRO V2</i>	2.3 Library Elements		
Category:	Building Auto	Building Automation		
Name:		FbRGB RecallColourPalette		
Type:	Function	Function Funktion block X Program		
Name of library:	DMX_01.lib	, ,		
Applicable to:	See Release	Note		
Library used:	SerComm.lib			
-	Serial_Interfa	ace_01.lib.		
	<u>.</u>			
Input parameter:	Data type:	Comment:		
adwColourPalette	ARRAY [110] of DWORD	Color palette array.		
iChannelRed	INT	Address for "red" channel		
iChannelGreen	INT	Address for "green" channel		
iChannelBlue	INT	Address for "blue" channel		
xRecallColour_1	BOOL	A rising edge will result in the color palette being called up from adwColourPalette[1] auf.		
xRecallColour_2	BOOL	A rising edge will result in the color palette being called up from adwColourPalette[2] auf.		
xRecallColour_3	BOOL	A rising edge will result in the color palette being called up from adwColourPalette[3] auf.		
xRecallColour_4	BOOL	A rising edge will result in the color palette being called up from adwColourPalette[4] auf.		
xRecallColour_5	BOOL	A rising edge will result in the color palette being called up from adwColourPalette[5] auf.		
xRecallColour_6	BOOL	A rising edge will result in the color palette being called up from adwColourPalette[6] auf.		
xRecallColour_7	BOOL	A rising edge will result in the color palette being called up from adwColourPalette[7] auf.		
xRecallColour_8	BOOL	A rising edge will result in the color palette being called up from adwColourPalette[8] auf.		
xRecallColour_9	BOOL	A rising edge will result in the color palette being called up from adwColourPalette[9] auf.		
xRecallColour_10	BOOL	A rising edge will result in the color palette being called up from adwColourPalette[10] auf.		

Input/output parameters:	Data type:	Comment:
abDMX_Values	ARRAY [1DMX_M AX_CH] of BYTE	Array of DMX values. DMX_MAX_CH=512
Output parameter:	Data type:	Comment:
-	-	-

	FbRGB_RecallColourPalette
\exists	adwColourPalette
\dashv	iChannelRed
\exists	iChannelGreen
\dashv	iChannelBlue
\dashv	xRecallColour_1
\dashv	xRecallColour_2
\dashv	xRecallColour_3
\dashv	xRecallColour_4
\exists	xRecallColour_5
\exists	xRecallColour_6
\exists	xRecallColour_7
\exists	xRecallColour_8
\exists	xRecallColour_9
\exists	xRecallColour_10
\exists	abDMX_Values ⊳

Function description:

Using the FbRGB_RecallColourPalette function block, stored color palettes can be called from the "adwColourPalette" array.

The "adwColourPalette" input can be linked with the variables of the same name of the FbRGB_SaveColourPalette function block and contains the stored color palettes. Representation is as a hexadecimal character in the order B (Blue) G (Green) R (Red). Yellow, for example, in this form has the value 16#00FFFF and white the value 16#FFFFFF.

The addresses for the corresponding DMX channels are assigned at the "iChannelRed", "iChannelGreen" and "iChannelBlue" inputs.

At a rising edge at the "xRecallColour_1" to "xRecallColour_10" inputs, the color palettes will be called up from the corresponding element of the "adwColourPalette" array.

This function block is used together with the communication module (see Page 6). Synchronization of the two entities is achieved via the "abDMX_Values" array. Therefore, the communication module and function block must be linked to each other. The function block can write values to the DMX line via this link.

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Fade Sequence (FbDMX_FadeSequence)

WAGO-I/O-PRO V2.3 Library Elements			
Category:	Building Automation		
Name:	FbDMX_Fade		
Type:	Function	Funktion block X Program	
Name of library:	DMX_01.lib		
Applicable to:	See Release	Note	
Library used:	SerComm.lib		
	Serial_Interfa	ce_01.lib.	
Input parameter:	Data type:	Comment:	
xEnable	BOOL	Activation of the fade sequence	
iChannel	INT	Address of the DMX channel	
tPeriod	TIME	Cycle duration	
		Minimum: 1s	
		Default setting = 5 s	
bMaximumLevel	BYTE	Maximum DMX channel value	
		Default setting: 255	
xTriangle	BOOL	Triangle function	
		Default setting: TRUE	
xSquare	BOOL	Pulsating signal	
xSawtoothRise	BOOL	Rising sawtooth	
xSawtoothFall	BOOL	Falling sawtooth	
Input/output parameters:	Data type:	Comment:	
abDMX Values	ARRAY	Array of DMX values.	
assimin_valuoo	[1DMX_M	DMX MAX CH=512	
	AX_CH] of	5	
	BYTE		
	T	-	
Output parameter:	Data type:	Comment:	
-	-	-	

FbDMX FadeSequence xEnable iChannel tPeriod bMaximumLevel xTriangle xSquare xSawtoothRise xSawtoothFall abDMX Values ⊳

Function description:

A fade sequence can be generated using the **FbDMX FadeSequence** function block. The function block is activated via the "xEnable" variable.

The address of the DMX channel is assigned at the "iChannel" input.

The "tPeriod" defines the duration of the fade sequence.

The "bMaximumValue" defines the maximum achievable value for the fade sequence.

If one of the following variables is set to TRUE, the corresponding function is generated:

- "xTriangle"- triangle function. 1.
- "xSquare"- pulsating signal. 2.
- "xSawtoothRise"- Rising sawtooth. 3.
- "xSawtoothFall"- Falling sawtooth.

This function block is used together with the communication module (see Page 6). Synchronization of the two entities is achieved via the "abDMX_Values" array. Therefore, the communication module and function block must be linked to each other. The function block can write values to the DMX line via this link.

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Cross Fade Sequence (FbRGB_CrossFadeSequence)

WAGO-	I/O- <i>PRO</i> V2	.3 Library Elements	
Category:	Building Automation		
Name:	FbRGB_CrossFadeSequence		
Type:	Function	Funktion block X Program	
Name of library:	DMX 01.lib		
Applicable to:	See Release	Note	
Library used:	SerComm.lib		
	Serial_Interfa	ice_01.lib.	
Input parameter:	Data type:	Comment:	
xEnable	BOOL	Activation of the fade sequence	
iChannelRed	INT	Address for "red" channel	
iChannelGreen	INT	Address for "green" channel	
iChannelBlue	INT	Address for "blue" channel	
tDelay	TIME	Delay time	
		Minimum: 1s	
		Default setting = 5 s	
xToAndFro	BOOL	Rising/Falling fade sequence	
iNumberOfColours	INT	Number of fade sequence colors	
		Value range = 1 - 10	
		Default setting: 10	
dwColour_1	DWORD	1. Color	
dwColour_2	DWORD	2. Color	
dwColour_3	DWORD	3. Color	
dwColour_4	DWORD	4. Color	
dwColour_5	DWORD	5. Color	
dwColour_6	DWORD	6. Color	
dwColour_7	DWORD	7. Color	
dwColour_8	DWORD	8. Color	
dwColour_9	DWORD	9. Color	
dwColour_10	DWORD	10. Color	
	1	,	
Input/output parameters:	Data type:	Comment:	
abDMX_Values	ARRAY	Array of DMX values.	
	[1DMX_M AX_CH] of	DMX_MAX_CH=512	
	BYTE		
	1 - · · -	1	
Output parameter:	Data type:	Comment:	
-	-	-	
	1	1	

FbRGB CrossFadeSequence xEnable iChannelRed liChannelGreen liChannelBlue tDelay xToAndFro liNumberOfColours dwColour 1 dwColour 2 dwColour 3 dwColour 4 dwColour 5 dwColour 6 dwColour 7 dwColour 8 dwColour 9 dwColour_10 abDMX Values ⊳

Function description:

A cross fade sequence can be generated using the FbRGB CrossFadeSequence function block. The sequence is activated via the "xEnable" input.

The addresses for the corresponding DMX channels are assigned at the "iChannelRed", "iChannelGreen" and "iChannelBlue" inputs.

Cross fading between the sequences is defined by the delay time "tDelay".

The fade sequence colors can be configured via the "dwColour_1" to "dwColour 10" inputs. Values are entered as a hexadecimal character in the order B (Blue) G (Green) R (Red). Yellow, for example, in this form has the value 16#00FFFF and white the value 16#FFFFFF.

The number of fade sequence colors is defined at the "iNumberOfColours" input.

A TRUE signal at the "xToAndFro" activates a cross fade sequence that runs continuously back and forth. A FALSE must be configured at the input if the fade sequence is to start over from the beginning when a maximum number of fade sequence colors is reached.

This function block is used together with the communication module (see Page 6). Synchronization of the two entities is achieved via the "abDMX_Values" array. Therefore, the communication module and function block must be linked to each other. The function block can write values to the DMX line via this link.

Chaser (FbDMX_Chaser)

WAGO-I/O-PRO V2.3 Library Elements			
Category:	Building Automation		
Name:	FbDMX_Cha		
Type:	Function	Funktion block X Program	
Name of library:	DMX_01.lib	·	
Applicable to:	See Release	Note	
Library used:	SerComm.lib		
	Serial_Interfa	ce_01.lib.	
Input parameter:	Data type:	Comment:	
xEnable	BOOL	Enables the function block.	
bChannelValue	BYTE	DMX channel value	
iStartChannel	INT	Starting channel	
		Minimum: 1	
		Default setting: 1	
iEndChannel	INT	End channel	
		Minimum: 2	
		Default setting: 2	
iOffset	INT	Increment	
		Minimum: 1	
		Default setting: 1	
tDelay	TIME	Delay time	
		Minimum: 50ms	
		Default setting = 1 s	
	la		
Input/output parameters:	Data type:	Comment:	
abDMX_Values	ARRAY [1DMX_M AX_CH] of BYTE	Array of DMX values. DMX_MAX_CH=512	
	•		
Output parameter:	Data type:	Comment:	
-	-	-	
	1	1	

FbDMX Chaser xEnable bChannelValue iStartChannel iEndChannel iOffset tDelay abDMX Values ⊳

Function description:

The FbDMX_Chaser function block copies the DMX value for a channel (A) to a different DMX channel (B) for a given number of DMX channels. The value for channel (A) is then reset to zero. A chaser effect can be created using this function.

The function block is activated via the "xEnable" variable. A falling edge at the "xEnable" input results in all DMX channels affected by this function block being reset to zero

The DMX value to be copied is configured at the "bChannelValue" input.

The DMX channel for which the copying process is to be started is assigned at the "iStartChannel" input. Copying of the DMX value is ended at the DMX channel "iEndChannel". The variable "iOffset" defines the increment for copying to a different DMX channel.

The delay period "tDelay" indicates the delay, or waiting period, between each step.

This function block is used together with the communication module (see Page 6). Synchronization of the two entities is achieved via the "abDMX_Values" array. Therefore, the communication module and function block must be linked to each other. The function block can write values to the DMX line via this link.

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Change Channel Values (FbDMX_ChangeChValues)

WAGO-I/O-PRO V2.3 Library Elements		
Category:	Building Automation	
Name:	FbDMX_ChangeChValues	
Type:	Function	Funktion block X Program
Name of library:	DMX_01.lib	
Applicable to:	See Release Note	
Library used:	SerComm.lib	
	Serial_Interface_01.lib.	
Input parameter:	Data type:	Comment:
xEnable	BOOL	Enables the function block.
bChannelValue_1st	BYTE	DMX value 1
iChannel_1st	INT	Address of the DMX channel
bChannelValue_2nd	BYTE	DMX value 2
iChannel_2nd	INT	Address of the DMX channel
bChannelValue_3rd	BYTE	DMX value 3
iChannel_3rd	INT	Address of the DMX channel
bChannelValue_4th	BYTE	DMX value 4
iChannel_4th	INT	Address of the DMX channel
bChannelValue_5th	BYTE	DMX value 5
iChannel_5th	INT	Address of the DMX channel
Input/output parameters:	Data type:	Comment:
abDMX_Values	ARRAY	Array of DMX values
	[1DMX_M	DMX_MAX_CH=512
	AX_CH] of BYTE	
	DITE	
Output parameter:	Data type:	Comment:
xReady	BOOL	Communication status
		TRUE = Function block active.
	1	FALSE = Function block busy

FbDMX ChangeChValues xEnable xReadv bChannelValue_1st iChannel 1st bChannelValue_2nd iChannel 2nd bChannelValue 3rd iChannel 3rd bChannelValue_4th iChannel 4th bChannelValue_5th iChannel_5th abDMX Values ⊳

Function description:

The DMX values for up to five DMX channels can be set using the FbDMX_ChangeChValue function block. The function block is activated via the "xEnable" variable.

The DMX values which are to be transferred for a change in values are specified via the "bChannelValue_1st" to "bChannelValue_5th" inputs.

The addresses for the five DMX channels are assigned at the "bChannelValue_1st" to "bChannelValue 5th" inputs.

This function block is used together with the communication module (see Page 6). Synchronization of the two entities is achieved via the "abDMX_Values" array. Therefore, the communication module and function block must be linked to each other. The function block can write values to the DMX line via this link.

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