

WAGO-I/O-PRO 32 Library

Mod_com.lib

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ADD_DESC (Data type)

Category:	More detailed	More detailed information about the PLC process image	
Name:	ADD_DESC		
Туре:	Data type X		
Library name:	Mod_com.lib		
Applicable to:	ADD_PI_INF	ORMATION	
Structure:			
Elements:	Data type:	Comments:	
posPAA	WORD	Bit position of the module in the PLC output process image.	
posPAE	WORD	Bit position of the module in the PLC input process image.	
sizePAA	BYTE	Number of bits assigned to this module in the PLC output process image.	
sizePAE	BYTE	Number of bits assigned to this module in the PLC input process image.	
channels	BYTE	Number of logic channels (only for complex modules).	
altFormat	BYTE	0: Standard output format 1: Alternative output format	
Header:			
TYPE ADD_DESC :			
STRUCT posPAA : WORD; posPAE : WORD; sizePAA : BYTE; sizePAE : BYTE; channels : BYTE; altFormat : BYTE; END_STRUCT			
END_TYPE			



Data type description:

This data type is a structure and provides more detail process image information regarding a module.



ADD_PI_INFORMATION

WAGO)-I/O-PRO 32	Library elements
Category:	More detailed information about the PLC process image	
Name:	ADD PI INFORMATION	
Туре:	Function X	Function block
Library name:	Mod_com.lib	· · · ·
Applicable to:	All programma	ble fieldbus controllers except MODBUS
Input parameter:	Data type:	Comments:
EN	BOOL	A TRUE at this input activates the function.
pAccess	POINTER TO MODULE_ INFO_ ACCESS	Pointer to a structure describing the modules from which more detailed process image information is to be determined.
pInfo	POINTER TO MODULE_ INFO	Pointer to a structure in which the more detailed process image information of a module is to be saved. If information is to be determined from several modules then a pointer must be transferred to an array of this structure type. In this case field limits are not checked! The structure, or the array of this structure must be initialised with ZERO prior to each selection.
Return value:	Data type:	Comments:
ADD PI INFORMATION	BOOL	FALSE:
		The function was performed incorrectly. Possible entries in the structure MODULE_INFO to which 'pInfo' refers, are invalid.
		TRUE: The function was successfully performed.



Graphic display:
ADD_PI_INFORMATION EN pAccess pInfo
Time behaviour:
EN
pInfo
ADD_PI_INFORMATION
Function description:
Using this function more detailed process image information can be determined regarding the modules (see components of the structure MODULE_INFO).
Example of how to determine information of all connected modules:
VAR access : MODULE_INFO_ACCESS; info : ARRAY[063] OF MODULE_INFO; END_VAR
<pre>access.physicalPosTo := 0; access.moduleType := 0;</pre>
ADD_PI_INFORMATION(1, ADR(access), ADR(info[0]));
Available from library version 3.0



CRC16

WAGO	-I/O-PRO 32	Library elements
Category:	Indirect access to process image	
Name:	CRC16	
Туре:	Function	Function block X Program
Library name:	Mod com.lib	
Applicable to:		ble fieldbus controllers
- • •	P - 0	
Input parameters:	Data type:	Comments:
INPUT	BYTE	Further input byte for which a CRC is to be calculated.
EN	BOOL	A rising edge at this input signals the initialisation of the function block and calculates the CRC for the first byte. With TRUE the CRC is calculated on each of the following bytes. With FALSE no calculation is performed.
Output paramatara	Data turna:	Comments:
Output parameters:	Data type: WORD	
CRC	WORD	The calculated value for the CRC. The CRC value is present at this output following each invocation.
Graphic display:		
Time behaviour:		
INPUT	 xxxxxxx	·
Function description:		
The CTC 16 function block	calculates the C	RC16 value for a number of input bytes.



FBUS_ERROR_INFORMATION

WAG	D-I/O-PRO 32	2 Library elements
Category:	Indirect access to system variables	
Name:	FBUS_ERROR_INFORMATION	
Туре:	Function	Function block X Program
Library name:	Mod_com.lib	· · ·
Applicable to:	All programm	able fieldbus controllers
Input parameters:	Data type:	Comments:
Output parameters:	Data type:	Comments:
FBUS_ERROR	BOOL	A TRUE at this output indicates a fieldbus error.
ERROR	WORD	Error occurred. The error messages are fieldbus specific (see individual controller description).
FBUS_ERROR_INFORMATION FBUS_ERROR ERROR	_	
Time behaviour:		
Function description: This function block offers the status of the fieldbus communication specific.	he programmer nunication. The	the possibility to obtain information on the values of the ERROR output are fieldbus
	•	atus of the communication monitoring atchdog has detected "time exceeded".)



GET_DIGITAL_INPUT_OFFSET

Category:	Access to process image		
Name:	GET_DIGITA	GET DIGITAL INPUT OFFSET	
Туре:	Function	Function block X Program	
Library name:	Mod_com.lib		
Applicable to:	All programm	able fieldbus controllers	
Input parameters:	Data type:	Comments:	
Output parameters:	Data type:	Comments:	
DIG_IN_OFFSET	WORD	Pre-assigned value for the byte addres from which the bits of the digital input modules are to be filed. The permissible value range is 0511.	
ERROR	WORD	Fault encountered. 0: No fault 0x8001: The given value is too small and will collide with the analog data. 0x8003: The given value is too large and will collide with the variable ranges 0x8005: The given value is larger than the maximum permissible value.	
Header: FUNCTION_BLOCK GET_DIG VAR_OUTPUT DIG_IN_OFFSET: WORD; ERROR: WORD; END_VAR	ITAL_INPUT_OFFSET		
Graphic display:	т		



Time behaviour:

Function description:

This function reads the current value of the saved address offset for the digital inputs. The value is pre-assigned with the function block SET_DIGITAL_INPUT_OFFSET and permanently saved in the controller. The read value is identical with the pre-assigned value. In case of a fault the output ERROR of the FB is set to a value not equal to 0. No communication takes place between the controller and the modules. This status is displayed via the blink code 10 by the blink argument 1 on the IO LED of the controller.

The default value when supplying the controllers is 0. As the value is saved permanently, for safety reasons the value should be set once again in the user program.

The current start address for the bits of the digital inputs can be interrogated with the FB PI_INFORMATION. The output INPUTBITS_OFFSET emits the value.



GET_DIGITAL_OUTPUT_OFFSET

Category:	Access to process image		
Name:	GET_DIGITAL_OUTPUT_OFFSET		
Туре:	Function		
Library name:	Mod_com.lib	· · ·	
Applicable to:	All programm	able fieldbus controllers	
Input parameters:	Data type:	Comments:	
Output parameters:	Data type:	Comments:	
DIG_OUT_OFFSET	WORD	Pre-assigned value for the byte addres from which the bits of the digital output modules are to be filed. The permissible value range is 0511.	
ERROR	WORD	Fault encountered. 0: No fault 0x8002: The given value is too small and will collide with the analogue data. 0x8004: The given value is too large and will collide with the variable ranges 0x8006: The given value is larger than the maximum permissible value.	
Header: FUNCTION_BLOCK GET_DIG: VAR_OUTPUT DIG_OUT_OFFSET: WORD; ERROR: WORD; END_VAR	ITAL_OUTPUT_OFFSE	Т	



Time behaviour:

Function description:

This function reads the current value of the saved address offset for the digital outputs. The value is pre-assigned with the function block SET_DIGITAL_OUTPUT_OFFSET and permanently saved in the controller. The read value is identical with the pre-assigned value. In case of a fault the output ERROR of the FB is set to a value not equal to 0. No communication takes place between the controller and the modules. This status is displayed via the blink code 10 by the blink argument 1 on the IO LED of the controller.

The default value when supplying the controllers is 0. As the value is saved permanently, for safety reasons the value should be set once again in the user program.

The current start address for the bits of the digital outputs can be interrogated with the FB PI_INFORMATION. The output OUTPUTBITS_OFFSET emits the value.



KBUS_ERROR_INFORMATION

WAGO-	I/O-PRO 32	Library elements
Category:	Indirect access system variables	
	KBUS ERROR INFORMATION	
Туре:	Function Function block X Program	
Library name:	Mod_com.lib	
Applicable to:	All programma	ble fieldbus controllers
Input parameters:	Data type:	Comments:
Output parameters:	Data type:	Comments:
	BOOL	A TRUE at this output indicates a
	BOOL	terminal bus error.
BITLEN	WORD	Terminal bus bit length
	WORD	Number of existing terminals blocks
	WORD	
ERROR_ARG	WORD	
FAIL_ADDRESS	WORD	In the event of a terminal bus error indicates the terminal number where the error has occurred.
TERM	ERROR BITLEN MINALS ERROR R_ARG	
Time behaviour:		
Function description: This function block offers the about the condition and confi		ne possibility of receiving information internal bus.

MOD_COM_VERSION

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WAGO	-I/O-PRO 32	Library elements
Category:	Indirect access to the process image	
Name:	MOD_COM_VERSION	
Туре:	Function X	Function block
Library name:	Mod_com.lib	
Applicable to:	All programma	ble fieldbus controllers
Input parameters:	Data type:	Comments:
EN	BOOL	A TRUE at this input actives this function.
	1	
Return value:	Data type:	Comments:
MOD_COM_VERSION	WORD	Library version
Graphic display:		
EN	 >	
	used during the	returns the current version number of the program development for information. In time can be avoided.



Version:	Description:
1.0	First version
1.1	The function blocks READ_OUTPUT_WORD and READ_OUTPUT_BIT were supplemented.
2.0	The function blocks GET_DIGITAL_INPUT_OFFSET, GET_DIGITAL_OUTPUT_OFFSET, SET_DIGITAL_INPUT_OFFSET and SET_DIGITAL_OUTPUT_OFFSET were supplemented.
3.0	The function ADD_PI_INFORMATION and the data types MODULE_INFO_ACCESS, MODULE_INFO and ADD_DESC are added.



MODULE_INFO (Data type)

Category:	More detailed	More detailed information about the PLC process image	
Name:	MODULE_INF	MODULE_INFO	
Туре:	Data type X		
Library name:	Mod_com.lib	· · ·	
Applicable to:	ADD_PI_INF0	ORMATION	
Structure:			
		1	
Elements:	Value:	Comments:	
physicalPos	BYTE	Physical module position (1-64).	
moduleType	WORD	The last 3 digits of the module designation (750-xxx).	
desc	ADD_DESC	Structure variable with more detailed information.	
END_STRUCT END_TYPE Data type description	on:		
regard to a module. For digital modules n the 'module type' ass 16#00D0: This digita process in 16#00D1: This digita PLC	o exact module design umes one of the follow I module does not ass nage. I module only occupie	extended process image information with nation can be determined. For this reason wing values: sume any bits in the PLC input or output s bits in the input process image of the s bits in the output process image of the	



MODULE_INFO_ACCESS (Data type)

WAGO	0-1/0- <i>PRO</i> 32	Library elements	
Category:	More detailed information about the PLC process image		
Name:	MODULE_INFO_ACCESS		
Туре:	Datentyp X		
Library name:	Mod_com.lib		
Applicable to:	ADD_PI_INFORMATION		
Structure:			
Elements:	Data type:	Comments:	
physicalPosOf	BYTE	Physical position of the first module from which the more detailed information is to be determined (1-64).	
physicalPosTo	BYTE	Physical position of the last module from which the more detailed information is to be determined (0-64).	
typeNumber	BYTE	Which module of a row of a type is meant (1-64).	
moduleType	WORD	The last 3 numbers of the module designation (750-xxx).	
window	WORD	Window for 'module type' in ascending direction.	
Header: TYPE MODULE_INFO_ACCESS :			
<pre>STRUCT physicalPosOf : BYTE; physicalPosTo : BYTE; typeNumber : BYTE; moduleType : WORD; window : WORD; END_STRUCT END_TYPE</pre>			



```
Data type description:
This data type is a structure and indicates which module more detailed process
image information is to be determined.
Three different access types are possible:
physicalPosTo <> 0:
Determine more detailed module information from 'physicalPosOf' to
'physicalPosTo'. 'physicalPosOf' and 'physicalPosTo' may be identical.
physicalPosTo = 0 AND moduleType <> 0:
Determine more detailed module information which is specified by 'type number',
'module type' and 'window'.
physicalPosTo = 0 AND moduleType = 0:
Determine more detailed information of all connected modules.
Example:
Determine information for the 3<sup>rd</sup> connected module of type 750-650/651/652/653:
physicalPosTo = 0
typeNumber = 3;
moduleType = 650;
window = 3;
```



PI_INFORMATION

WAGO-I/O-PRO 32 Library elements			
Category:	Indirect access to process image		
Name:	PI_INFORMATION		
Туре:	Function Function block X Program		
Library name:	Mod com.lib		
Applicable to:	All programma	ble fieldbus controllers	
Input parameters:	Data type:	Comments:	
Output parameters:	Data type:	Comments:	
ANALOG_OUTLENGTH	WORD	Number of analog output bits	
ANALOG_INLENGTH	WORD	Number of analog input bits	
DIGITAL_OUTLENGTH	WORD	Number of digital output bits	
DIGITAL_INLENGTH	WORD	Number of digital input bits	
OUTPUTBITS_OFFSET	WORD	Number of bytes	
INPUTBITS_OFFSET	WORD	Number of bytes	
Graphic display: PI_INFORMATION ANALOG_OUTLENGTH DIGITAL_OUTLENGTH DIGITAL_INLENGTH OUTPUTBITS_OFFSET INPUTBITS_OFFSET INPUTBITS_OFFSET			
Function description: This function block offers the programmer the possibility to obtain information about the structure of the process image.			



READ_INPUT_BIT

Category:	Indirect acce	Indirect access to the process image	
Name:	READ_INPU	READ_INPUT_BIT	
Туре:	Function	Function Function block 🗴 Program	
Library name:	Mod_com.lib	Mod_com.lib	
Applicable to:	All programn	nable fieldbus controllers	
Input parameters:	Data type:	Comments:	
WORD_ADDRESS	WORD	Here the word address of the bit in the process image is transferred.	
BIT_ADDRESS	WORD	Here the bit position in the word is transferred.	
Output parameters		Comments:	
VALUE	BOOL	Current value of the read bit	
ERROR	BOOL	TRUE in case an error has occurred. Possible errors are an inadmissible address. Otherwise FALSE	
READ_INPUT_BI			
	ALUE		
WORD_ADDRESS V BIT_ADDRESS EF	ALUE		
WORD_ADDRESS V BIT_ADDRESS EF Time behaviour: WORD_ADDRESS	ALUE RROR		
WORD_ADDRESS V BIT_ADDRESS EF Time behaviour: WORD_ADDRESS BIT_ADDRESS			
WORD_ADDRESS W BIT_ADDRESS EF Time behaviour: WORD_ADDRESS BIT_ADDRESS VALUE			
WORD_ADDRESS V BIT_ADDRESS EF Time behaviour: WORD_ADDRESS BIT_ADDRESS			
WORD_ADDRESS W BIT_ADDRESS EF Time behaviour: WORD_ADDRESS BIT_ADDRESS VALUE			



READ_INPUT_WORD

WAG	0-I/O- <i>PRO</i> -	Library elements		
Category:	Indirect access to process image			
Name:	READ_INPUT	_WORD		
Туре:	Function Function block X Program			
Library name:	Mod_com.lib			
Applicable to:	All programmable fieldbus controllers			
Input parameters:	Data type:	Comments:		
WORD_ADDRESS	WORD	Here the word address of the word is transferred to the process image.		
Output parameters:	Data type:	Comments:		
VALUE	WORD	Current value of the read word		
ERROR	BOOL	TRUE if an error has occurred. Possible errors are an inadmissible address, otherwise FALSE		
Time behaviour:	-			
WORD_ADDRESS	1			
VALUE				
ERROR				
process image. The current after invoking the FB at the	value of the inp outputs. The fu of IEC 61131-3	he possibility of indirect access to the but word is made available immediately nction block must be used with particular "all addresses are assigned at the time e" are not adhered to.		



READ_OUTPUT_BIT

Category:	Indirect access to process image		
Name:	READ_OUTPUT_BIT		
Туре:	Function Function block 🗶 Program		
Library name:	Mod com.lib (from Version 1.1)		
Applicable to:	All programmable fieldbus controllers		
Input parameters:	Data type:	Comments:	
WORD_ADDRESS	WORD	Here the word address of the bit are transferred to the process image.	
BIT_ADDRESS	WORD	Here the bit position in the word is transferred.	
<u></u>	Dete turner	Commonto	
Output parameters:	Data type:	Comments:	
VALUE ERROR	BOOL BOOL	Current value of the read bit. TRUE if an error has occurred. Possibl errors are an inadmissible address, otherwise FALSE.	
READ_OUTPUT_BIT 			
WORD_ADDRESS VALUE			
WORD_ADDRESS VALUE BIT_ADDRESS ERROR			
WORD_ADDRESS VALUE BIT_ADDRESS ERROR Time behaviour: word_Address BIT_Address			
WORD_ADDRESS VALUE BIT_ADDRESS ERROR Time behaviour: word_address BIT_address Value			
WORD_ADDRESS VALUE BIT_ADDRESS ERROR Time behaviour: word_Address BIT_Address			
WORD_ADDRESS VALUE BIT_ADDRESS ERROR Time behaviour: word_address BIT_address Value			



READ_OUTPUT_WORD

WAGO	-I/O-PRO 32	Library elements		
Category:	Indirect access to process image			
Name:	READ_OUTPUT_WORD			
Туре:	Function Function block 🗶 Program			
Library name:	Mod com.lib (from Version 1.1)			
Applicable to:	All programmable fieldbus controllers			
Input parameters:	Data type:	Comments:		
WORD ADDRESS	WORD	Here the word address of the bits are		
WORD_ADDICEOU	WORLD	transferred to the process image.		
	1			
Output parameters:	Data type:	Comments:		
VALUE	WORD	Current value of the read bit.		
ERROR	BOOL	TRUE if an error has occurred. Possible		
ERROR	DOOL	errors are an inadmissible address,		
		otherwise FALSE.		
READ_OUTPUT_WORD 				
Time behaviour:				
WORD ADDRESS				
VALUE				
ERROR				
Function description:				
This function block offers the programmer the possibility of indirect access to the process image. The current value of the output word is made available immediately after invoking the FB at the outputs. The function block must be used with particular care as here the guidelines of IEC 61131-3 "all addresses are assigned at the time of programming and during the running time" are not adhered to.				

SET_DIGITAL_INPUT_OFFSET

Category:	Access to process image		
Name:	SET_DIGITAL_INPUT_OFFSET		
Туре:	Function Function block 🛛 Program		
Library name:	Mod_com.lib		
Applicable to:	All programm	All programmable fieldbus controllers	
Input parameters:	Data type:	Comments:	
EN	BOOL	FB execution control. The function block is executed on a rising edge at EN.	
DIG_IN_OFFSET	WORD	Byte address, from where the bits of the digital input modules are to be filed. The permissible value range is 0511. With the assignment of 0 the digital inputs are saved directly behind the bytes of the analogue modules, if analogue modules are present.	
Output parameters:	Data type:	Comments:	
ENO	BOOL	FB execution result. ENO is TRUE as long as EN is TRUE.	
ERROR	WORD	Fault encountered. 0: No fault 0x0001: This funktion is not supported. 0x8001: The given value is too small and will collide with the analogue data. 0x8003: The given value is too large and will collide with the variable ranges 0x8005: The given value is larger than the maximum permissible value.	
Header: FUNCTION_BLOCK SET_DIGI VAR_INPUT EN: BOOL; DIG_IN_OFFSET: WORD; END_VAR VAR_OUTPUT ENO: BOOL; ERROR: WORD; END_VAR	TAL_INPUT_OFFSET		



Graphic disp	lay:			
SET_DIGITAL — EN — DIG_IN_OFFSE	_INPUT_OFFSET ENO			
Time behavio	our:			
			r ~	
ERROR	X		X	
Function des	cription:			
changed confi		when reading th	value for the digital in he input PA during th er.	
			oller transmits the b een the controller a	
			ers is 0. As the value uld be set once agai	
The current st	art address for th	ne bits of the dig	_DIGITAL_INPUT_ ital outputs can be i BITS_OFFSET emit	nterrogated with



SET_DIGITAL_OUTPUT_OFFSET

Category:	Access to process image	
Name:	SET_DIGITAL_OUTPUT_OFFSET	
Туре:	Function Function block X Program	
Library name:	Mod com.lib	
Applicable to:		able fieldbus controllers
	p. c g. c	
Input parameters:	Data type:	Comments:
EN	BOOL	FB execution control. The function block is executed on a rising edge at EN.
DIG_OUT_OFFSET	WORD	Byte address, from where the bits of the digital output modules are to be filed. The permissible value range is 0511. With the assignment of 0 the digital outputs are saved directly behind the bytes of the analogue modules, if analogue modules are present.
Output parameters:	Data type: Comments:	
ENO	BOOL	FB execution result. ENO is TRUE as long as EN is TRUE.
ERROR	WORD	Fault encountered. 0: No fault 0x0001: This funktion is not supported. 0x8002: The given value is too small and will collide with the analogue data. 0x8004: The given value is too large and will collide with the variable ranges 0x8006: The given value is larger than the maximum permissible value.
Header:		
FUNCTION_BLOCK SET_DIG VAR_INPUT EN: BOOL; DIG_OUT_OFFSET: WORD; END_VAR VAR_OUTPUT ENO: BOOL; ERROR: WORD; END_VAR	TAL_OUTPUT_OFFSE	T



Graphic display:
SET_DIGITAL_OUTPUT_OFFSET — EN ENO
Time behaviour:
EN
DIG_OUT_OFFSET
ENO
ERROR X
Function description:
This function sets the address offsets current value for the digital outputs. The changed configuration is used when writing the output PA during the next PLC cycle. The value is permanently saved in the controller.
When entering an invalid offset value the controller transmits the blink code 10 with the blink argument 2. The data exchange between the controller and the modules is stopped. The default value when supplying the controllers is 0. As the value is saved permanently, for safety reasons the value should be set once again in the user program.
The saved value can be read with the FB GET_DIGITAL_OUTPUT_OFFSET. The current start address for the bits of the digital outputs can be interrogated with the FB PI_INFORMATION. The output OUTPUTBITS_OFFSET emits the value.



SLAVE_ADDRESS

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Category:	Indirect acces	Indirect access to system variables		
Name:	SLAVE_ADD	SLAVE_ADDRESS		
Туре:	Function			
Library name:	Mod_com.lib			
Applicable to:	All programm	All programmable fieldbus controllers		
Input parameters:	Data type:	Comments:		
Output parameters:	Data type:	Comments:		
SLAVE_ADDRESS	BYTE	The current node address.		
Time behaviour:				
Function description:	s the programmer	access to the address set on the		



WRITE_OUTPUT_BIT

WAGO	D-I/O-PRO 32	2 Library elements	
Category:	Indirect access to process image		
Name:	WRITE_OUTPUT_BIT		
Туре:	Function Function block 🗶 Program		
Library name:	Mod com.lib		
Applicable to:	All programmable fieldbus controllers		
	1 0		
Input parameters:	Data type:	Comments:	
WORD_ADDRESS	WORD	Here the word address of the word is transferred to the process image.	
BIT_ADDRESS	WORD	Here the bit position in the word is transferred.	
VALUE	BIT	Value to be written.	
	·		
Output parameters:	Data type:	Comments:	
ERROR	BOOL	TRUE if an error has occurred. Possible errors are an inadmissible address, otherwise FALSE.	
	-		
Time behaviour:			
BIT_ADDRESS	;ſ		
VALUE X	X	XX	
ERROR			
Function description:			
process image. The current after invoking the FB. The f	t value of the ou function block m 1-3 "all addresse	the possibility of indirect access to the utput bit is made available immediately nust be used with particular care as here es are assigned at the time of are not adhered to.	



WRITE_OUTPUT_WORD

WAGO-I/O-PRO 32 Library elements		
Category:	Indirect access to process image	
Name:	WRITE OUTPUT WORD	
Туре:	Function	Function block X Program
Library name:	Mod com.lib	
Applicable to:	All programmable fieldbus controllers	
	[·]· · · 3· · · · ·	
Input parameters:	Data type:	Comments:
WORD ADDRESS	WORD	Here the word address of the word is
		transferred to the process image.
VALUE	WORD	Value to be written.
Output parameters:	Data type:	Comments:
ERROR	BOOL	TRUE if an error has occurred. Possible errors are an inadmissible address, otherwise FALSE.
	_	
Time behaviour:		
WORD ADDRESS		
- VALUE	x	x
ERROR		
Function description: This function block offers the programmer the possibility of indirect access to the process image. The current value of the output word is made available immediately after invoking the FB. The function block must be used with particular care as here the guidelines of IEC 61131-3 "all addresses are assigned at the time of		
programming and during the running time" are not adhered to.		

