Date:2 January 2013Vendor Name:WindowMaster A/SProduct Name:BACnet and Modbus MotorLink™ MotorControllerProduct Model Number:WBA11M. MSTP BACnet-IP, MODBUS IP and RTUConfiguration Version (CSV):1.00bLFirmware Revision:V2.01k

#### **Product Description:**

The WindowMaster WBA11M is a motor controller with 4 motor lines used for controlling MotorLink<sup>™</sup> window actuators. The WBA11M also have inputs for push button for manually operating the 4 motor lines independently.

MotorLink<sup>™</sup> technology is a state of the art digital data communication between actuators and control unit using 3 wires for power and communication.

MotorLink<sup>™</sup> technology enables position control and feedback of each group of motors. Up to 4 window actuators in a group are connected in parallel and runs 100% synchronous. The actual position is stored in non volatile memory in each actuator, so position information is maintained in case of loss of power. Up to 2 additional locking actuators can be connected to a MotorLink<sup>™</sup> motor line.

WBA11M also supports operation with different actuator speeds:

- One low speed setting for automatic operation.
- One higher speed setting for manual control which is giving a slightly higher noise level and a faster response to user input.

If a maximum position signal is received the window can only be opened up to that limit. If a hand position command is received the automatic operation position commands will be overridden for a given time. Other parameters decide which speed the actuators use – typically lower speed settings are used for automatic control in order to achieve an almost soundless operation. There is a faster and more audible speed via manual operation.

WBA11M is for instance used in the WindowMaster MotorController type WBC 16M 040A, WBC 16M 080B.

WBA 11M support the following protocols Modbus IP and RTU as well as BACnet MSTP and IP in the flowing combinations:

- 1) BACnet MSTP, BACnet IP and Modbus IP
- 2) MODBUS RTU, BACnet IP and Modbus IP

Modbus RTU or BACnet MSTP baud rate (2400, 4800, 9600, 19200, 38400, 76800, 115200) and device address are selectable on dip switches. Modbus RTU settings: 8 data bits, even parity, 1 stop bit.



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Address:	Name:	Register:	Description:	<u>Unit:</u>
00001		Digital read/write points (Colls)	Set that all motor lines must be closed	
	Long description: This object is used to indicate that all motor lines	should be closed. When closing the Heat & Smo	oka snaad is baing usad	
	$\Lambda = \Omega$ ff No indication to close all motor lines	should be closed. When closing the rieat & only	ske speed is beilig used.	
	1 = On. Indication to close all motor lines.			
Address:	Name:	Register:	Description:	<u>Unit:</u>
00002	Auto_Off	Digital read/write points (Coils)	Set whether automatic control is active	
	Long description:	control is anabled or not		
	$ \begin{array}{c} 1115 \text{ Object is used to indicate whether automatic} \\ 0 - Off \text{ Automatic control enabled} \end{array} $			
	0 = On: Automatic control disabled.			
<u>.</u>	T = OII. Automatic control disabled.			
Address:	Name:	Register:	Description:	<u>Unit:</u>
00003	Service	Digital read/write points (Coils)	Set to disable all actuator movements	
	Long description:	- Ormine made When the convice chiest is get	the Materia and a second the estimators	
	This object is used to indicate that the system is in Service mode. When the service object is set the MotorController does not move the actuators. 0 - Off: Movements allowed			
	0 = Off: Movements allowed.			
	1 = On: Movements not allowed.			
Address:	Name:	Register	Description:	Unit <sup>.</sup>
Address.		regiotor	Doonpatin	01110
00004	Close_Line_1	Digital read/write points (Coils)	Set that motor line 1 must be closed	<u>onic</u>
00004	Close_Line_1	Digital read/write points (Coils)	Set that motor line 1 must be closed	<u></u>
00004	Close_Line_1 Long description: This object is used to indicate that the motor line is	Digital read/write points (Coils) must be closed. When closing the Heat & Smok	Set that motor line 1 must be closed e speed is being used.	
00004	Close_Line_1         Long description:         This object is used to indicate that the motor line is $0 = Off$ : Normal operation.	Digital read/write points (Coils) must be closed. When closing the Heat & Smok	Set that motor line 1 must be closed e speed is being used.	
00004	<b>Close_Line_1</b> Long description: This object is used to indicate that the motor line is 0 = Off: Normal operation. 1 = On: Motor line must be closed.	Digital read/write points (Coils) must be closed. When closing the Heat & Smok	Set that motor line 1 must be closed e speed is being used.	<u></u>
Address:	Close_Line_1 Long description: This object is used to indicate that the motor line is 0 = Off: Normal operation. 1 = On: Motor line must be closed. Name:	Digital read/write points (Coils) must be closed. When closing the Heat & Smok	Set that motor line 1 must be closed e speed is being used.	Unit:
Address: 00005	Close_Line_1 Long description: This object is used to indicate that the motor line is 0 = Off: Normal operation. 1 = On: Motor line must be closed. Name: Close_Line_2	Digital read/write points (Coils) must be closed. When closing the Heat & Smok	Set that motor line 1 must be closed         e speed is being used.         Description:         Set that motor line 2 must be closed	Unit:
<u>Address:</u> 00005	Close_Line_1         Long description:         This object is used to indicate that the motor line is         0 = Off: Normal operation.         1 = On: Motor line must be closed.         Name:         Close_Line_2         Long description:	Digital read/write points (Coils) must be closed. When closing the Heat & Smok Register: Digital read/write points (Coils)	Set that motor line 1 must be closed         e speed is being used.         Description:         Set that motor line 2 must be closed	Unit:
Address: 00005	Close_Line_1         Long description:         This object is used to indicate that the motor line is         0 = Off: Normal operation.         1 = On: Motor line must be closed.         Name:         Close_Line_2         Long description:         See Close_Line_1	Digital read/write points (Coils) must be closed. When closing the Heat & Smok Register: Digital read/write points (Coils)	Set that motor line 1 must be closed         e speed is being used.         Description:         Set that motor line 2 must be closed	Unit:
Address: 00005	Close_Line_1         Long description:         This object is used to indicate that the motor line is         0 = Off: Normal operation.         1 = On: Motor line must be closed.         Name:         Close_Line_2         Long description:         See Close_Line_1         Name:	Digital read/write points (Coils) must be closed. When closing the Heat & Smok Register: Digital read/write points (Coils)	Set that motor line 1 must be closed         e speed is being used.         Description:         Set that motor line 2 must be closed         Description:         Description:	Unit:
Address: 00005	Close_Line_1         Long description:         This object is used to indicate that the motor line is         0 = Off: Normal operation.         1 = On: Motor line must be closed.         Name:         Close_Line_2         Long description:         See Close_Line_1         Name:         Close Line_3	Digital read/write points (Coils) must be closed. When closing the Heat & Smok Register: Digital read/write points (Coils) Register: Digital read/write points (Coils)	Set that motor line 1 must be closed         e speed is being used.         Description:         Set that motor line 2 must be closed         Description:         Set that motor line 3 must be closed	Unit:
Address: 00005	Close_Line_1         Long description:         This object is used to indicate that the motor line is         0 = Off: Normal operation.         1 = On: Motor line must be closed.         Name:         Close_Line_2         Long description:         See Close_Line_1         Name:         Close_Line_3         Long description:	Digital read/write points (Coils)         must be closed. When closing the Heat & Smok         Register:         Digital read/write points (Coils)         Register:         Digital read/write points (Coils)	Set that motor line 1 must be closed         e speed is being used.         Description:         Set that motor line 2 must be closed         Description:         Set that motor line 3 must be closed	<u>Unit:</u>
Address:           00004	Close_Line_1         Long description:         This object is used to indicate that the motor line is         0 = Off: Normal operation.         1 = On: Motor line must be closed.         Name:         Close_Line_2         Long description:         See Close_Line_1         Name:         Close_Line_3         Long description:         See Close_Line_1	Digital read/write points (Coils) must be closed. When closing the Heat & Smok Register: Digital read/write points (Coils) Register: Digital read/write points (Coils)	Set that motor line 1 must be closed         e speed is being used.         Description:         Set that motor line 2 must be closed         Description:         Set that motor line 3 must be closed	Unit:
Address:           00004	Close_Line_1         Long description:         This object is used to indicate that the motor line is         0 = Off: Normal operation.         1 = On: Motor line must be closed.         Name:         Close_Line_2         Long description:         See Close_Line_1         Name:         Close_Line_3         Long description:         See Close_Line_1	Digital read/write points (Coils)         must be closed. When closing the Heat & Smok         Register:         Digital read/write points (Coils)         Register:         Digital read/write points (Coils)         Register:         Digital read/write points (Coils)	Set that motor line 1 must be closed         e speed is being used.         Description:         Set that motor line 2 must be closed         Description:         Set that motor line 3 must be closed	Unit:
Address:           00004           Address:           00005           Address:           00006	Close_Line_1         Long description:         This object is used to indicate that the motor line is         0 = Off: Normal operation.         1 = On: Motor line must be closed.         Name:         Close_Line_2         Long description:         See Close_Line_1         Name:         Close_Line_3         Long description:         See Close_Line_1	Digital read/write points (Coils)         must be closed. When closing the Heat & Smok         Register:         Digital read/write points (Coils)         Register:         Digital read/write points (Coils)         Register:         Digital read/write points (Coils)	Set that motor line 1 must be closed         e speed is being used.         Description:         Set that motor line 2 must be closed         Description:         Set that motor line 3 must be closed         Description:         Set that motor line 4 must be closed	Unit: Unit: Unit:
Address:           00004           Address:           00005           Address:           00006           Address:           00007	Close_Line_1         Long description:         This object is used to indicate that the motor line is         0 = Off: Normal operation.         1 = On: Motor line must be closed.         Name:         Close_Line_2         Long description:         See Close_Line_1         Name:         Close_Line_3         Long description:         See Close_Line_1         Name:         Close_Line_3         Long description:         See Close_Line_1	Digital read/write points (Coils)         must be closed. When closing the Heat & Smok         Register:         Digital read/write points (Coils)         Register:         Digital read/write points (Coils)         Register:         Digital read/write points (Coils)         Register:         Digital read/write points (Coils)	Set that motor line 1 must be closed         e speed is being used.         Description:         Set that motor line 2 must be closed         Description:         Set that motor line 3 must be closed         Description:         Set that motor line 4 must be closed	Unit: Unit:

Address:	Name:	Register:	Description:	<u>Unit:</u>
80000	Disable_Hand_Line_1	Digital read/write points (Coils)	Set to disable manual control for motor line 1	
	This object is used to disable manual control of th	e motor line		
	0 = Off. Enable manual control of motor line			
	1 = On: Disable manual control of motor line.			
Aulus		Devictor	Description	1.1.20
Address:	Name: Disable Hand Line 2	Register: Digital read/write points (Coils)	Description: Set to disable manual control for motor line 2	<u>Unit:</u>
00003	Long description:	Digital read/write points (Colls)		
	See Disable_Hand_Line_1			
Addrose:	Namo:	Pogistor	Description:	Init:
00010	Disable Hand Line 3	Digital read/write points (Coils)	Set to disable manual control for motor line 3	<u>onn.</u>
	Long description:			
	See Disable_Hand_Line_1			
Address:	Name:	Register:	Description:	Unit:
00011	Disable_Hand_Line_4	Digital read/write points (Coils)	Set to disable manual control for motor line 4	
	Long description:			
	See Disable_Hand_Line_1			
Address:	Name:	Register:	Description:	Unit:
00012	Disable_Auto_Line_1	Digital read/write points (Coils)	Set to disable automatic control for motor line 1	
	Long description: This object is used to disable automatic control of	the motor line		
	$\Omega = Off$ : Enable automatic control of motor line			
	1 = On: Disable automatic control of motor line.			
Address	Namo	Decision	Description	lloite
<u>Address:</u>	Disable Auto Line 2	<u>Register:</u> Digital read/write points (Coils)	Set to disable automatic control for motor line 2	<u>Unit:</u>
00013	Long description:			
	See Disable_Auto_Line_1			
Address:	Name:	Register:	Description:	L Init:
00014	Disable Auto Line 3	Digital read/write points (Coils)	Set to disable automatic control for motor line 3	<u>onic</u>
	Long description:			
	See Disable_Auto_Line_1			
Address:	Name:	Register:	Description:	Unit:
00015	Disable_Auto_Line_4	Digital read/write points (Coils)	Set to disable automatic control for motor line 4	
	Long description:			
	See Disable_Auto_Line_1			

Address: 40001	Name: Max Position Input Line 1	Register: Analog read/write points (Holding Registers)	Description: Sets the maximum allowed position for motor line 1	<u>Unit:</u> Percent
	Long description:			
	This object is used to set the maximum allowed p	osition for the motor line. When the actuators ar	e moving due to a decreased maximum position heat & smol	ke sneed is
	heing used		e moving due to a debiedded maximum poblion near a smol	
	Benger 0, 100 %			
	Range. 0 - 100 %			
Address:	Name:	Register:	Description:	Unit:
40002	Max Position Input Line 2	Analog read/write points (Holding Registers)	Sets the maximum allowed position for motor line 2	Percent
	l ong description:			1 oroon
	See Max Position Input Line 1			
Address:	Name:	Register:	Description:	Unit:
40003	Max_Position_Input_Line_3	Analog read/write points (Holding Registers)	Sets the maximum allowed position for motor line 3	Percent
	Long description:	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
	See Max_Position_Input_Line_1			
				1
Address:	Name:	Register:	Description:	Unit:
40004	Max_Position_Input_Line_4	Analog read/write points (Holding Registers)	Sets the maximum allowed position for motor line 4	Percent
	Long description:			
	See Max_Position_Input_Line_1			
Address:	Name:	Register:	Description	L Init:
10005	Auto Position Line 1	Analog read/write points (Holding Registers)	Sets the target position with auto speed for motor line 1	Percent
40003	Long description:			T Clocht
	This object is used to set the target position with a	automatic priority motor line. Automatic speed is	used during movement	
	Pango: 0 100 %	automatic priority motor line. Automatic speed is	used during movement.	
	Nange. 0 - 100 //			
Address:	Name:	Register:	Description:	Unit:
40006	Auto_Position_Line_2	Analog read/write points (Holding Registers)	Sets the target position with auto speed for motor line 2	Percent
	Long description:			<u> </u>
	See Auto_Position_Line_1			
Address:	Name:	Register:	Description:	Unit:
40007	Auto_Position_Line_3	Analog read/write points (Holding Registers)	Sets the target position with auto speed for motor line 3	Percent
	Long description:			
	See Auto_Position_Line_1			
Address:	Name:	Register:	Description:	Linit:
40008	Auto Position Line 4	Analog read/write points (Holding Registers)	Sets the target position with auto speed for motor line 4	Percent
70000	Long description:			1 elcent
	See Auto Position Line 1			
1				

Address:	Name:	Register:	Description:	Unit:
40009	Hand_Relative_Position_Line_1	Analog read/write points (Holding Registers)	Hand relative position for motor line 1	Percent
	Long description:			
	This object is used to adjust the position for the m	otor line with manual priority. Hand speed is use	ed during movement.	
	Range:			
	V: -1001 = Move actuator V% of full stroke in th	e closing direction relative to the current positio	n of the actuator	
	0: Stop any ongoing actuator movement			
	V: 1100: Move actuator V% of full stroke in the o	pening direction relative to the current position	of the actuator.	
	V < -100 and $>100$ are truncated.			
Addroool	Nome	Desister	Description	Linite
<u>Address:</u>	Name: Hand Polative Position Line 2	<u>Register:</u> Appleg read/write points (Holding Pogisters)	Uescription: Hand relative position for motor line 2	Dorcopt
40010	Long description:	Analog read/write points (noiding Registers)		Feiceni
	See Hand_Relative_Position_Line_1			
Address:	Name:	Register:	Description:	<u>Unit:</u>
40011	Hand_Relative_Position_Line_3	Analog read/write points (Holding Registers)	Hand relative position for motor line 3	Percent
	Long description:			
	See Hand_Relative_Position_Line_1			
Address:	Name:	Register:	Description:	Unit:
40012	Hand Relative Position Line 4	Analog read/write points (Holding Registers)	Hand relative position for motor line 4	Percent
	Long description:			
	See Hand_Relative_Position_Line_1			
Addross:	Namo:	Pogistor:	Description:	L Init:
<u>40013</u>	Hand Absolute Position Line 1	Applog read/write points (Holding Registers)	Set the target position of motor line 1 using Hand speed	Percent
40013	Long description:	Analog read/write points (riolding Registers)	Set the target position of motor line 1 doing hand speed	Tercent
	This object is used to set the target position of the	motor line with manual priority Hand speed is	used during movement	
	Range: 0 - 100 %			
L				
Address:	Name:	Register:	Description:	<u>Unit:</u>
40014	Hand_Absolute_Position_Line_2	Analog read/write points (Holding Registers)	Set the target position of motor line 2 using Hand speed	Percent
	Long description:			
	See Hand_Absolute_Position_Line_1			
Address:	Name:	Register:	Description:	Unit:
40015	Hand_Absolute_Position_Line_3	Analog read/write points (Holding Registers)	Set the target position of motor line 3 using Hand speed	Percent
	Long description:			•
	See Hand_Absolute_Position_Line_1			
Addrosse	Nama	Pogistor	Description:	L Init-
<u>40016</u>	Hand Absolute Position Line 1	Analog read/write points (Holding Registers)	Set the target position of motor line 4 using Hand speed	Percent
-10010				i elcent
	See Hand Absolute Position Line 1			
1				

Address: 00016	Name: Clear Hand Timer Line 1	Register: Digital read/write points (Coils)	Description: Clears the timer for manual movement of motor line 1	<u>Unit:</u>
	•••••.		When cleared automatic control takes precedence	
	Long description:	or the motor line		
	$0 = N_0$ action.			
	1 = Clear/expire timer.			
Address:	Name:	Register:	Description:	Unit:
00017	Clear_Hand_Timer_Line_2	Digital read/write points (Coils)	Clears the timer for manual movement of motor line 2	
			When cleared automatic control takes precedence	
	See Clear_Hand_Timer_Line_1			
Address:	Name:	Register:	Description:	Unit:
00018	Clear_Hand_Timer_Line_3	Digital read/write points (Coils)	Clears the timer for manual movement of motor line 3 When cleared automatic control takes precedence	
	Long description: See Clear_Hand_Timer_Line_1			
Address:	Name:	Register	Description.	Linit:
00019	Clear_Hand_Timer_Line_4	Digital read/write points (Coils)	Clears the timer for manual movement of motor line 4	<u>on.</u>
			When cleared automatic control takes precedence	
	Long description: See Clear_Hand_Timer_Line_1			
Address:	Name:	Register:	Description:	Unit:
30001	Hand_Position_Output_Line_1	Analog read only points (Input Registers)	Local input command cascade output for motor line 1	Percent
	Long description: This object transmits the events on the local input	terminals for the motor line		
	-100 = Long activation on the close input terminal			
	0 = Short activation on open or close input ter	minal.		
	100 = Long activation on the open input terminal.			
Address:	Name:	Register:	Description:	Unit:
30002	Hand_Position_Output_Line_2	Analog read only points (Input Registers)	Local input command cascade output for motor line 2	Percent
	See Hand_Position_Output_Line_1			
Address:	Name:	Register:	Description:	<u>Unit:</u>
30003	Hand_Position_Output_Line_3	Analog read only points (Input Registers)	Local input command cascade output for motor line 3	Percent
	Long description: See Hand Position Output Line 1			

<u>Address:</u> 30004	Name: Hand_Position_Output_Line_4	Register: Analog read only points (Input Registers)	Description: Local input command cascade output for motor line 4	<u>Unit:</u> Percent
	See Hand_Position_Output_Line_1			
Address: 30005	Name: Actual_Position_Line_1 Long description:	Register: Analog read only points (Input Registers)	Description: Contains the actual position for Line 1	<u>Unit:</u> Percent
	This object contains the actual position for the mo Range: 0 - 100 %	tor line.		
Address: 30006	Name: Actual_Position_Line_2 Long description: See Actual_Position_Line_1	Register: Analog read only points (Input Registers)	Description: Contains the actual position for Line 2	Unit: Percent
Address: 30007	Name: Actual_Position_Line_3	Register: Analog read only points (Input Registers)	Description: Contains the actual position for Line 3	<u>Unit:</u> Percent
	See Actual_Position_Line_1			
Address: 30008	Name: Actual_Position_Line_4	Register: Analog read only points (Input Registers)	Description: Contains the actual position for Line 4	<u>Unit:</u> Percent
	Long description: See Actual_Position_Line_1			
<u>Address:</u> 30009	Name: Actual_Max_Position_Line_1	Register: Analog read only points (Input Registers)	Description: Contains the maximum allowed position of Line 1 in percent	<u>Unit:</u> Percent
	Long description: This object contains the actual maximum allowed Any condition limiting the position is reflected on t Range: 0 - 100 %	position of the motor line. his output.		
<u>Address:</u> 30010	Name: Actual_Max_Position_Line_2	Register: Analog read only points (Input Registers)	Description: Contains the maximum allowed position of Line 1 in percent	<u>Unit:</u> Percent
	Long description: See Actual_Max_Position_Line_1			
Address: 30011	Name: Actual_Max_Position_Line_3	Register: Analog read only points (Input Registers)	Description: Contains the maximum allowed position of Line 1 in percent	<u>Unit:</u> Percent
	Long description: See Actual_Max_Position_Line_1			

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Address:	Name:	<u>Register:</u>	Description:	<u>Unit:</u>
30012	Actual_Max_Position_Line_4	Analog read only points (Input Registers)	Contains the maximum allowed position of Line 1 in percent	Percent
	Long description: See Actual_Max_Position_Line_1			

Address:	Name:	Register:	Description:	Unit:
30013	Motor_Line_Status_Line_1	Analog read only points (Input Registers)	Contains the actual Motor status of Line 1	
	Long description:			
	This output object contains the status of the motor	line stored in a 16 bit value. MSBLSB		
	Mode of operation. Bit 3, 2, 1, 0:			
	0000b = Only maximum opening limit active. Both	hand operation and automatic operation are dis	abled.	
	0001b = Hand operation. Automatic operation is di	sabled.		
	0010b = Only automatic operation. Hand operation	is disabled.		
	0011b = Normal. Both hand and automatic operation	on are enabled.		
	0100b = Emergency. Motor line operated by a hea	t and smoke emergency input. No other operation	on possible.	
	0101b = Emergency closed. Motor line operated by	y a heat and smoke emergency close input. No	other operation possible.	
	0110b = Close. Close command active. Hand and	automatic operation are disabled.		
	0111b = Open. Open command active. Hand and a	automatic operation are disabled.		
	1000b = Position locked. Service input object activ	e. No operation possible.		
	1001b = Manually operated. The motor line has be	en operated by hand. I me out determined by r	non-volatile parameter.	
	1010b = Disabled. The motor line is disabled by no	on-volatile parameter.		
	1011b–1111b = Reserved.			
	Number of window actuators detected. Bit 6, 5, 4:			
	0 = No actuators detected on motor line.			
	1-7 = 1-7 Actuator(s) detected on motor line.			
	Status. Bit 8, 7:			
	00b = Normal operation.			
	01b = Under configuration. The motor line is being	configured. The actuator(s) will not move.	and the first of the second state	
	10b = Hand operation blocking. A hand operation blocking	DIOCKED STATE IS PENDING, but In this state hand c	pperation is still possible.	
	11b = Hand operation blocked. It is not possible to	operate the motor line by hand operation comm	hands (hand operation disabled).	
	Movement. Bit 10, 9:			
	00b = Normal. Actuator configuration is valid and n	to problems detected during last operation of the	e actuators.	
	01b = Configuration error. Inconsistency between i	non-volatile parameters and actual actuators de	tected or configuration ongoing.	
	10b = Obstacle detected during opening. Problem	detected during last opening operation of the act	ctuators.	
	T ID = Obstacle detected during closing. Problem c	detected during last closing operation of the actu	lators.	
	Locking actuator #1 present. Bit 11.			
	0 = Locking actuator #1 not present.	no. 1 has been found on the motor line		
	I = LOCKING actuator #1 present. Locking actuator	no. Thas been found on the motor line.		
	Locking actuator #2 present. Bit 12.			
	0 = Locking actuator #2 not present.	na. O has been found on the motor line		
	T = Locking actuator #2 present. Locking actuator	no. 2 has been found on the motor line.		
	Watchuog timeout. Bit 15. $0 - Ne timeout$			
	0 = N0 (inteout. 1 = Watchdog timeout. The positioning limitation of	ammunication objects have not been undated w	ithin the configured time out	
	Meter line communication error. Bit 14:	ommunication objects have not been updated w		
	Notor line communication error. Dit 14. $0 - N_0$ motor line communication error			
	<ul> <li>0 = NO MOTOR INE COMMUNICATION ETTOR.</li> <li>1 = Motor line communication error. Error during of</li> </ul>	ammunication with and or more actuator(a) on th	no motor lino	
	Closed Bit 15:	ommunication with one of more actuator(s) on the		

	0 = Not closed. 1 = Closed. All actuators at their closed position. I	f locking actuators are present these are also lo	cked.	
Address: 30014	Name: Motor_Line_Status_Line_2 Long description: See Motor_Line_Status_Line_1	Register: Analog read only points (Input Registers)	Description: Contains the actual Motor status of Line 2	<u>Unit:</u>
Address: 30015	Name: Motor_Line_Status_Line_3 Long description: See Motor_Line_Status_Line_1	Register: Analog read only points (Input Registers)	Description: Contains the actual Motor status of Line 3	<u>Unit:</u>
Address: 30016	Name: Motor_Line_Status_Line_4 Long description: See Motor_Line_Status_Line_1	Register: Analog read only points (Input Registers)	Description: Contains the actual Motor status of Line 4	<u>Unit:</u>
Address: 30017	Name: Mode_Of_Operation_Line_1 Long description: Mode of operation for the motor line: 1. Only maximum opening limit active: Both hand 2. Hand operation: Automatic operation is disabled 3. Only automatic operation: Hand operation is disabled 4. Normal: Both hand and automatic operation are 5. Emergency: Motor line operated by a heat and 6. Emergency closed: Motor line operated by a heat 7. Close: Close command active. Hand and autom 8. Open: Open command active. Hand and autom 9. Position locked: Service input object active. No 10. Manually operated: The motor line has been of 11. Disabled: The motor line is disabled by non-voluments.	Register: Analog read only points (Input Registers) operation and automatic operation are disabled. d. sabled. e enabled. smoke emergency input. No other operation pos eat and smoke emergency close input. No other natic operation are disabled. operation possible. operated by hand. Time out determined by non-volatile parameter.	Description: Indicates the actual mode of operation for line 1 ssible. operation possible.	<u>Unit:</u>
Address: 30018	Name: Mode_Of_Operation_Line_2 Long description: See Mode_Of_Operation_Line_1	Register: Analog read only points (Input Registers)	Description: Indicates the actual mode of operation for line 2	<u>Unit:</u>
Address: 30019	Name: Mode_Of_Operation_Line_3 Long description: See Mode_Of_Operation_Line_1	Register: Analog read only points (Input Registers)	Description: Indicates the actual mode of operation for line 3	<u>Unit:</u>

<u>Address:</u> 30020	Name: Mode_Of_Operation_Line_4	Register: Analog read only points (Input Registers)	Description: Indicates the actual mode of operation for line 4	<u>Unit:</u>
	Long description: See Mode_Of_Operation_Line_1			
<u>Address:</u> 30021	Name: No_Of_Actuators_Detected_Line_1	Register: Analog read only points (Input Registers)	Description: Indicates no of actuators detected on Line 1	<u>Unit:</u>
	Long description: This object contains the number of window actuat 0 = No actuators detected on motor line. 1-4 = 1-4 Actuator(s) detected on motor line.	tors detected on the motor line.		
Address: 30022	Name: No_Of_Actuators_Detected_Line_2 Long description: See No_Of_Actuators_Detected_Line_1	Register: Analog read only points (Input Registers)	Description: Indicates no of actuators detected on Line 2	Unit:
Address: 30023	Name:         No_Of_Actuators_Detected_Line_3         Long description:         See No_Of_Actuators_Detected_Line_1	Register: Analog read only points (Input Registers)	Description: Indicates no of actuators detected on Line 3	<u>Unit:</u>
Address: 30024	Name: No_Of_Actuators_Detected_Line_4 Long description: See No_Of_Actuators_Detected_Line_1	Register: Analog read only points (Input Registers)	Description: Indicates no of actuators detected on Line 4	<u>Unit:</u>
<u>Address:</u> 30025	Name: Motor_Status_Line_1	Register: Analog read only points (Input Registers)	Description: Indicates the Operation status for line 1	<u>Unit:</u>
	<ul> <li>Long description:</li> <li>This object contains the motor line status:</li> <li>1. Normal operation.</li> <li>2. Under configuration: The motor line is being conditional operation blocking: A hand operation blocking.</li> <li>4. Hand operation blocked: It is not possible to operation blocked.</li> </ul>	nfigured. The actuator(s) will not move. ked state is pending, but in this state hand ope erate the motor line by hand operation comman	ration is still possible. Ids (hand operation disabled).	
Address: 30026	Name: Motor_Status_Line_2	Register: Analog read only points (Input Registers)	Description: Indicates the Operation status for line 2	Unit:
	Long description: See Motor_Status_Line_1			
<u>Address:</u> 30027	Name: Motor_Status_Line_3	Register: Analog read only points (Input Registers)	Description: Indicates the Operation status for line 3	<u>Unit:</u>
	Long description: See Motor_Status_Line_1			

Address: 30028	Name: Motor_Status_Line_4	Register: Analog read only points (Input Registers)	Description: Indicates the Operation status for line 4	<u>Unit:</u>
	Long description: See Motor_Status_Line_1			·
Address:	Name.	Register:	Description:	Linit:
30029	Movement_Line_1	Analog read only points (Input Registers)	indicates Movement status for line 1	<u>onit.</u>
	Long description: This object contains the actuator movement status: 1. Normal: Actuator configuration is valid and no problems detected during last operation of the actuators. 2. Configuration error: Inconsistency between non-volatile parameters and actual actuators detected or configuration ongoing. 3. Obstacle detected during opening: Problem detected during last opening operation of the actuators. 4. Obstacle detected during closing: Problem detected during last closing operation of the actuators.			
Address: 30030	Name: Movement Line 2	Register: Apalog read only points (Input Registers)	Description: indicates Movement status for line 2	<u>Unit:</u>
	Long description: See Movement_Line_1			
Address: 30031	Name: Movement Line 3	Register: Analog read only points (Input Registers)	Description: indicates Movement status for line 3	<u>Unit:</u>
	Long description: See Movement_Line_1			1
Address:	Name:	Register:	Description:	Unit:
30032	Movement_Line_4	Analog read only points (Input Registers)	indicates Movement status for line 4	
	Long description: See Movement_Line_1			
Address:	Name:	Register:	Description:	Unit:
30033	Locking_Actuators_Detected_Line_1	Analog read only points (Input Registers)	indicates the locking actuator configuration detected on line 1	
	Long description: This object contains the detected locking actuator configuration: 1. No Locking actuator present. 2. 1 Locking actuator has been found on the motor line. 3. Not valid. 4. 2 Locking actuators have been found on the motor line.			
Address:	Name:	Register:	Description:	Unit:
30034	Locking_Actuators_Detected_Line_2	Analog read only points (Input Registers)	indicates the locking actuator configuration detected on line 2	
	Long description: See Locking Actuators Detected Line 1			

Address: 30035	Name: Locking_Actuators_Detected_Line_3	Register: Analog read only points (Input Registers)	Description: indicates the locking actuator configuration detected on line 3	<u>Unit:</u>
	Long description: See Locking_Actuators_Detected_Line_1			
<u>Address:</u> 30036	Name: Locking_Actuators_Detected_Line_4	Register: Analog read only points (Input Registers)	Description: indicates the locking actuator configuration detected on line 4	<u>Unit:</u>
	Long description: See Locking_Actuators_Detected_Line_1			
Address: 10001	Name: Watchdog_Timeout_Line_1	Register: Digital read only points (Input Status)	Description: Indicates Watchdog timeout on line 1	<u>Unit:</u>
	Long description: This object contains the object cyclic update moni 0 = No time-out. 1 = Watchdog time-out. The positioning limitation	toring watchdog timeout status. communication objects have not been updated	within the configured time out.	
Address: 10002	Name: Watchdog Timeout Line 2	Register: Digital read only points (Input Status)	Description: Indicates Watchdog timeout on line 2	<u>Unit:</u>
	Long description: See Watchdog_Timeout_Line_1			
Address: 10003	Name: Watchdog_Timeout_Line_3	Register: Digital read only points (Input Status)	Description: Indicates Watchdog timeout on line 3	<u>Unit:</u>
	Long description: See Watchdog_Timeout_Line_1			
Address: 10004	Name: Watchdog_Timeout_Line_4	Register: Digital read only points (Input Status)	Description: Indicates Watchdog timeout on line 4	<u>Unit:</u>
	Long description: See Watchdog_Timeout_Line_1			
Address: 10005	Name: Communication_Error_Line_1	Register: Digital read only points (Input Status)	Description: Indicates communication error status for Line 1	<u>Unit:</u>
	Long description: This object contains the motor line communication	n error status:		
	<ul> <li>0 = No motor line communication error.</li> <li>1 = Motor line communication error. Error during of</li> </ul>	communication with one or more actuator(s) on	the motor line.	
Address: 10006	Name: Communication_Error_Line_2	Register: Digital read only points (Input Status)	Description: Indicates communication error status for Line 2	<u>Unit:</u>
	Long description: See Communication_Error_Line_1			

Address: 10007	Name: Communication Error Line 3	Register: Digital read only points (Input Status)	Description:	<u>Unit:</u>
	Long description:			
	See Communication_Error_Line_1			
Address:	Name:	Register:	Description:	Unit:
10008	Communication_Error_Line_4	Digital read only points (Input Status)	Indicates communication error status for Line 4	
	Long description:			
	See Communication_Error_Line_1			
Address:	Name:	Register:	Description:	Unit:
10009	Closed_Line_1	Digital read only points (Input Status)	Indicates Closed / Not closed status for actuators on Line	
	Long description:	·		•
	This object contains the all actuators closed status	5:		
	0 = Not closed.			
	1 = Closed. All actuators at their closed position. I	f locking actuators are present these are also I	ocked.	
Address:	Name:	Register:	Description:	Unit:
10010	Closed_Line_2	Digital read only points (Input Status)	Indicates Closed / Not closed status for actuators on Line	
			2	
	Long description:			
Address:	Name:	Register:	Description:	Unit:
10011	Closed_Line_3	Digital read only points (Input Status)	Indicates Closed / Not closed status for actuators on Line	
	Long description:		•	1
	See Closed_Line_1			
Address:	Name:	Register:	Description:	Unit:
10012	Closed Line 4	Digital read only points (Input Status)	Indicates Closed / Not closed status for actuators on Line	
		5 ,1 (1 )	4	
	Long description:	·		•
	See Closed_Line_1			
Address:	Name:	Register:	Description:	Unit:
10013	Hand Operation Line 1	Digital read only points (Input Status)	Indicates Hand operation Status for line 1	<u></u>
	Long description:			
	This object contains the hand operation status:			
	0 = Not Hand operation.			
	1 = Hand operation, actuators are at the moment	controlled manually.		
Address:	Name:	Register:	Description:	Unit:
10014	Hand Operation Line 2	Digital read only points (Input Status)	Indicates hand operation Status for line 2	<u></u>
	Long description:			1
	See Hand Operation Line 1			

				1
Address: 10015	Name: Hand Operation Line 3	Register: Digital read only points (Input Status)	Description: Indicates hand operation Status for line 3	<u>Unit:</u>
	Long description:			
	See Hand_Operation_Line_1			
Address:	Name:	Register:	Description:	Unit:
10016	Hand_Operation_Line_4	Digital read only points (Input Status)	Indicates hand operation Status for line 4	
	Long description:			
	See Hand_Operation_Line_1			
Address:	Name:	Register:	Description:	Unit:
10017	Error_Line_1	Digital read only points (Input Status)	Indicates error condition for Line 1	
	Long description:	P		
	I his object contains information about the motor i	ine error condition.		
	0 = False: No error condition detected.			
Address:	Name:	Register:	Description:	<u>Unit:</u>
10018	Error_Line_2	Digital read only points (Input Status)	Indicates error condition for Line 2	
	Long description:			
Address:	Name:	Register:	Description:	<u>Unit:</u>
10019	Error_Line_3	Digital read only points (Input Status)	Indicates error condition for Line 3	
	Long description:			
Address:	Name:	Register:	Description:	<u>Unit:</u>
10020	Error_Line_4	Digital read only points (Input Status)	Indicates error condition for Line 4	
	Long description:			
	See Error_Line_1			
Address:	Name:	Register:	Description:	Unit:
10021	MotorController_Error	Digital read only points (Input Status)	MotorController Error Status	
	Long description:			
	I his object contains information about the overall	error status.	P.1	
	1 = Notor controller error. Indicating any kind of e	rror except errors related to the heat and smoke	e link.	
	U = NO error present.			

Address:	Name:	Register:	Description:	Unit:
30037	Heat Smoke Link Status	Analog read only points (Input Registers)	Heat and smoke status	
	Long description:			1
	This output object contains information about the h	neat and smoke daisy changed communication	link.	
	Bit 0:	, ,		
	1 = Emergency, 1st priority emergency command	active on link.		
	0 = No emergency command present on link.			
	Bit 1:			
	1 = Emergency close, 2nd priority emergency close	e command active on link.		
	$0 = N_0$ emergency close command present on link			
	Bit 2	•		
	1 = Failure Error present that affects the heat and	smoke system		
	0 - 0k No error present	Shoke bystem.		
	Bit 3.			
	1 – Link communication failure Error detected in t	he daisy chained, communication link		
	0 - 1 ink communication ok			
	Bit 4:			
	1 - 1 ink incoming error bit. Error present in provin	us controller(s) in daisy chained communication	link	
	$\Lambda = \text{Link incoming error bit}$		I IIIIK.	
	DILD.	ka avatam ia rupping an battary nawar		
	I = Dattery powered operation. The heat and smo	ke system is running on battery power.		
	0 = Mains powered operation.			
		. 19.1		
	1 = Open. A 4th priority open command is active o	on link.		
	0 = No open command present.			
	Bit 7:			
	1 = Close. A 3rd priority close command is active of	on link.		
	0 = No close command present.			
Address:	Name:	Register:	Description:	Unit:
10022	Heat_Smoke_Emergency	Digital read only points (Input Status)	Heat and smoke Emergency	
	Long description:			1
	This object contains information about the heat an	d smoke emergency state.		
	0 = False: Emergency not active.			
	1 = True: Emergency active. Motor controller oper	rated by a heat and smoke emergency input. No	o other operation possible.	
Addross	Name.	Register.	Description:	Unit
10023	Heat Smoke Emergency Close	Digital read only points (Input Status)	Heat and smoke Emergency Close	<u>onit.</u>
10020	Long description:		Theat and smoke Emergency 01036	1
	This object contains information about the heat an	d smoke emergency close state.		
	0 = False: Emergency close not active			
10022 Address: 10023	Heat_Smoke_Emergency         Long description:         This object contains information about the heat an 0 = False: Emergency not active.         1 = True: Emergency active. Motor controller oper         Name:         Heat_Smoke_Emergency_Close         Long description:         This object contains information about the heat an 0 = False: Emergency close not active.	Digital read only points (Input Status) d smoke emergency state. rated by a heat and smoke emergency input. No Register: Digital read only points (Input Status) d smoke emergency close state.	Heat and smoke Emergency         o other operation possible.         Description:         Heat and smoke Emergency Close	Unit:

1 = True: Emergency close active. Motor controller operated by a heat and smoke emergency close input. No other operation possible.

<u>Address:</u> 10024	Name: Heat_Smoke_Failure	Register: Digital read only points (Input Status)	Description: Heat and smoke failure	<u>Unit:</u>
	Long description: This object contains information about the heat ar 0 = False: No heat and smoke failure. 1 = True: Heat and smoke failure. Error detected	I that affects normal heat and smoke operation.		
Address: 10025	Name: Heat_Smoke_OK	Register: Digital read only points (Input Status)	Description: Heat and smoke ok	<u>Unit:</u>
	Long description: This object contains information about Heat and s 0 = Heat and smoke not OK. 1 = Heat and smoke OK. No error detect that affe	moke state. cts the heat and smoke operation.		
Address:	Name:	Register:	Description:	<u>Unit:</u>
10026	Heat_Smoke_Battery_Power_Operation	Digital read only points (Input Status)	Heat and smoke Battery Power operation	
	This output object contains information about Pow	ver condition		
	0 = Normal Power			
	1 = Battery power operation			
Address:	Name:	Register:	Description:	<u>Unit:</u>
30038	Heat_Smoke_Link_State	Analog read only points (Input Registers)	Heat and smoke link state	
	Long description: This object contains information about the heat ar	nd smoke daisy chained communication link		
	$1 = N_0$ priority override	a shoke daisy channed communication link.		
	2 = Close.			
	3 = Open.			
	4 = Open (and Close).			
	5 = Emergency Close.			
	6 = Emergency Close (and close).			
	8 = Emergency Close (and open and close)			
	9 = Emergency Open.			
	10 = Emergency Open (and close).			
	11 = Emergency Open (and open).			
	12 = Emergency Open (and open and Close).			
	13 = Emergency Open (and emg. close).	)		
	14 = Emergency Open (and emg. close and close)	<i>)</i> . )		
	16 = Emergency Open (and emg. close and open	,. and close).		

Address: 10027	Name: Heat Smoke Link Error	Register: Digital read only points (Input Status)	Description: Heat and Smoke link error	<u>Unit:</u>
	Long description: This object contains information about the heat an 1 = Link communication failure: Error detected in t 0 = Link communication ok.	d smoke link status. he daisy chained communication link.		
Address: 10028	Name: Heat_Smoke_Link_Incoming_Error	Register: Digital read only points (Input Status)	Description: Heat and smoke link Daisy chain incoming error state	<u>Unit:</u>
	Long description: This object contains information about the heat an 1 = Link incoming error bit. Error present in previo 0 = No incoming error bit.	d smoke daisy chained link incoming error bit s us controller(s) in daisy chained communication	itate: link.	
Address:	Name:	Register:	Description:	Unit:
40017	Expected No Of Actuators Line 1	Analog read/write points (Holding Registers)	This non-volatile parameter sets the expected No of	<u></u>
			Actuators on the motor line	
	<ul> <li>WBA11M examines the actual actuator configuration or order to have a valid configuration.</li> <li>This non-volatile parameter determines how to handle or synchronised positions - independent of tolerances and the operation is stopped in order to avoid damage on the windows - each equipped with a single actuator (-1) are run time failures, non-volatile parameters must be select Valid values are: <ol> <li>Line disabled</li> <li>anot synchronised single-actuators (-1)</li> <li>anot synchronised single-actuators (-1)</li> <li>4 not synchronised single-actuators (-1)</li> <li>Normal (use value in window actuators)</li> </ol> </li> <li>Default value: "Don't care".</li> </ul>	the motor line. The controller in each MotorLink <sup>™</sup> ad liscrepancies in the actuator configuration. Please no different loads. If the positions differ the actuators wi e window. This synchronisation feature is used if mor connected to the same motor line, this synchronisati ted in order to fit the expected number of actuators o (-1)	ctuator includes information about how many fellow actuators that is te that normally actuators are exchanging actual position in order to Il automatically wait for the slowest one. If one or more actuators fai re actuators are needed in order to operate a large or heavy window on feature is disabled. Depending on the demand for detection of co r a don't care value, where no check of the number of actuators is p	keep I to respond, I to respond, I fmore onfiguration or erformed.
	Attention         1. Windows may be damaged if the actuators modeling a valid combination before switt         2. When configured with the "Don't care" value, the are connected to the MotorLine or when some WSC xxM.         Always ensure to configure the MotorControlle	ounted on them are of an invalid combination and the ching on the power to the controller. The MotorController is unable to detect and report an e or all actuators connected malfunction. This is particu r with the parameter value representing the combinat	controller is being run with the "Don't care" parameter value. error in case of invalid combinations, including the situation where ne ularly important where the MotorController is used in Smoke panels ion of actuators actually connected to the MotorLine.	o actuators such as the

Address: 40018	Name: Expected_No_Of_Lock_Actuators_Line_1	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the expected configuration of locking actuators	<u>Unit:</u>
	<ul> <li>This non-volatile parameter determines the expect Possible values are:</li> <li>1: None: No locking actuators are expected.</li> <li>2: 1 locking actuator is expected.</li> <li>3: 2 locking actuators are expected.</li> <li>3-13: Not used.</li> <li>14: Don't care: Any number of locking actuators are</li> </ul>	ted configuration of locking actuators. re accepted.		
Address: 40019	Name: Hand_Speed_Line_1	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the speed of the actuators during hand operation	<u>Unit:</u> Percent
	Long description: This non-volatile parameter determines the speed Range: 0 - 100 %. 0 % means actuators minimum	of the actuators during hand operation. speed, 100 % means actuators maximum spee	ed.	
Address: 40020	Name: Automatic_Speed_Line_1	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the speed of the actuators during automatic operation	<u>Unit:</u> Percent
	Long description: This non-volatile parameter determines the speed Range: 0 - 100 %. 0 % means actuators minimum	of the actuators during automatic operation. speed, 100 % means actuators maximum spee	ed.	
<u>Address:</u> 40021	Name: Heat_Smoke_Speed_Line_1	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the speed of the actuators during Heat and Smoke operation	Unit: Percent
	Long description: This non-volatile parameter determines the speed This speed is also used when the actuators are cli Max_Position_Input_Line_X Range: 0 - 100 %. 0 % means actuators minimum	of the actuators during heat and smoke operations during heat and smoke operations of by Close_Line_X or Close_all objects, or we speed, 100 % means actuators maximum speed	on. when the actuators are moving due to a decreased value on ed.	
<u>Address:</u> 40022	Name: Max_Position_Comfort_Line_1	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the maximum opening allowed during normal (comfort) operation	<u>Unit:</u> Percent
	Long description: This non-volatile parameter determines the maxim A limitation of the stroke of the actuators can for ir normally only are allowed to open e.g. 40 % of full Range: 0 - 100 % of full stroke.	num opening allowed during normal (comfort) op nstance be useful in cases where the actuator is I stoke during comfort ventilation.	peration. a part of a heat and smoke ventilation solution, where actua	tors

<u>Address:</u> 40023	Name: Max_Position_Heat_Smoke_Line_1	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the maximum opening allowed during Heat and Smoke operation	Unit: Percent
	Long description: This non-volatile parameter determines the maxim If 0 % is selected windows will close during a Heat Range: 0 - 100 % of full stroke.	num opening allowed during heat and smoke ope t and smoke scenario.	eration.	
Address: 40024	Name: Lock_Actuator_Hand_Speed_Line_1	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the speed of the locking actuators during hand operation	<u>Unit:</u> Percent
	Long description: This non-volatile parameter determines the speed Range: 0 - 100 %. 0 % means actuators minimum	of the locking actuators during hand operation. speed, 100 % means actuators maximum spee	ed.	
Address: 40025	Name: Lock_Actuator_Auto_Speed_Line_1	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the speed of the locking actuators during automatic operation	Unit: Percent
	Long description: This non-volatile parameter determines the speed Range: 0 - 100 %. 0 % means actuators minimum	of the locking actuators during automatic opera speed, 100 % means actuators maximum spee	tion. d.	
<u>Address:</u> 40026	Name: Lock_Actuator_Heat_Smoke_Speed_Line_1	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the speed of the locking actuators during Heat and Smoke operation	<u>Unit:</u> Percent
	Long description: This non-volatile parameter determines the speed This speed is also used when the actuators are cle Max_Position_Input_Line_X Range: 0 - 100 %. 0 % means actuators minimum	of the locking actuators during Heat and Smoke osed by Close_Line_X or Close_all objects, or w speed, 100 % means actuators maximum spee	e operation. when the actuators are moving due to a decreased value on ed.	
Address: 40027	Name: Lock_Actuator_Service_Position_Line_1	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the service position of the actuator when the locking actuator is in service position	<u>Unit:</u>
	Long description: Some locking actuators include a feature, where a actuation for service can activate the turn state for actuator in service state can be selected. This nor Range: 0 - 255 counts. The typical distance of one	a special service position can be activated. This the window. In order to ease the disengagement -volatile parameter determines this service position of the type of window.	feature is typically used in tilt and turn windows, where the lo nt of the window actuator from the sash, a position of the win tion for window actuator. Idow actuator.	cking dow

A 1 1	b.l	D		1.1.24
Address:	Name:	Register:		<u>Unit:</u>
00020	LOCK_ACTURIOF_BIOCKED_IS_CIOSED_LINE_1	Digital read/write points (Colls)	I his non-volatile parameter sets whether obstacles during	
			locking situation must be judged as a mal function or a	
			normal situation on line 1	
	Long description:			
	Some locking actuators include position switches	for determination of the actual position. Some w	indow hinges do however not allow the locking actuator to re	ach the final
	position but stops at a mechanical stop. This non-	volatile parameter determines whether this situa	ation must be judged as a mal function or a normal situation.	
	Range:			
	0 = Use switch: Only activation of the switch indica	ate locked position.		
	1 = Use over current or switch: Activation of the sy	witch or the mechanical stop will both be taken a	as indication for locked positions.	
Address:	Name:	Register:	Description:	<u>Unit:</u>
00023	Use_Local_Input_Line_1	Digital read/write points (Colls)	I his non-volatile parameter sets whether local input must	
			control motor line 1 or only transmitted	
	Long description:			
	I his non-volatile parameter determines whether ic	ocal input must be active for the motor line. If no	t active will local input only be transmitted.	
	Range:			
	0 = Use and transmit.			
	1 = Transmit only.			
Address.	Name.	Register:	Description:	Linit:
00024	Retransmit Local Input Line 1	Digital read/write points (Coils)	This pon-volatile parameter sets whether local input for	<u>onit.</u>
00024	Ketranomit_Eooal_mpat_Eme_1		line 1 is retransmitted	
	Long description:			
	This non-volatile parameter determines whether the	he local input is only sent when the status is cha	nged or also sent cyclically	
	Range	ie lood input is only sent when the status is ond		
	0 – Do not retransmit unchanged status			
	1 - Potransmit status			
Address:	Name:	Register:	Description:	<u>Unit:</u>
40028	Hand_Time_Out_Line_1	Analog read/write points (Holding Registers)	This non-volatile parameter sets the duration of time after	Minutes
			hand operation, where automatic commands are ignored	
	Long description:			
	When actuators are operated by hand the automa	tic operation is ignored in some time.		
	This non-volatile parameter determines the duration	on of time after hand operation, where automatic	c commands are ignored.	
	Hand operation can come from different input obje	ects and local input terminals.	, and the second s	
	Input objects that limits the position is still active.	·		
	Range: 2 - 255 minutes.			
Address:	Name:	Register:	Description:	<u>Unit:</u>
40029	Expected_No_Of_Actuators_Line_2	Analog read/write points (Holding Registers)	This non-volatile parameter sets the expected No of	
			Actuators on the motor line	
	Long description:			
	See Expected_No_Of_Actuators_Line_1			
	Long description:			
	Oce Lypecieu_NU_OI_Actuators_Line_1			

<u>Address:</u> 40030	Name: Expected_No_Of_Lock_Actuators_Line_2	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the expected configuration of locking actuators	<u>Unit:</u>
	See Expected_No_Of_Lock_Actuators_Line_1			
<u>Address:</u> 40031	Name: Hand_Speed_Line_2	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the speed of the actuators during hand operation	<u>Unit:</u> Percent
	Long description: See Hand_Speed_Line_1			
<u>Address:</u> 40032	Automatic_Speed_Line_2	Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the speed of the actuators during automatic operation	Percent
	Long description: See Automatic_Speed_Line_1			
Addroos	Nomo	Decister	Description	Linite
40033	Heat_Smoke_Speed_Line_2	Analog read/write points (Holding Registers)	This non-volatile parameter sets the speed of the actuators during Heat and Smoke operation	Percent
	Long description: See Heat_Smoke_Speed_Line_1			
A shala a a s	N	Desister	Description	11-20
<u>Address:</u> 40034	Name: Max_Position_Comfort_Line_2	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the maximum opening allowed during normal (comfort) operation	Unit: Percent
Address: 40034	Name: Max_Position_Comfort_Line_2 Long description: See Max_Position_Comfort_Line_1	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the maximum opening allowed during normal (comfort) operation	<u>Unit:</u> Percent
Address: 40034	Name:         Max_Position_Comfort_Line_2         Long description:         See Max_Position_Comfort_Line_1	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the maximum opening allowed during normal (comfort) operation	Unit: Percent
Address: 40034 <u>Address:</u> 40035	Name:         Max_Position_Comfort_Line_2         Long description:         See Max_Position_Comfort_Line_1         Name:         Max_Position_Heat_Smoke_Line_2	Register:         Analog read/write points (Holding Registers)         Register:         Analog read/write points (Holding Registers)	Description:         This non-volatile parameter sets the maximum opening allowed during normal (comfort) operation         Description:         This non-volatile parameter sets the maximum opening allowed during Heat and Smoke operation	Unit: Percent
Address: 40034	Name:         Max_Position_Comfort_Line_2         Long description:         See Max_Position_Comfort_Line_1         Name:         Max_Position_Heat_Smoke_Line_2         Long description:         See Max_Position_Heat_Smoke_Line_1	Register:       Analog read/write points (Holding Registers)         Register:       Analog read/write points (Holding Registers)	Description:         This non-volatile parameter sets the maximum opening allowed during normal (comfort) operation         Description:         This non-volatile parameter sets the maximum opening allowed during Heat and Smoke operation	Unit: Percent Unit: Percent
Address: 40034	Name:         Max_Position_Comfort_Line_2         Long description:         See Max_Position_Comfort_Line_1         Name:         Max_Position_Heat_Smoke_Line_2         Long description:         See Max_Position_Heat_Smoke_Line_1	Register: Analog read/write points (Holding Registers)	Description:         This non-volatile parameter sets the maximum opening allowed during normal (comfort) operation         Description:         This non-volatile parameter sets the maximum opening allowed during Heat and Smoke operation	Unit: Percent
Address: 40034 Address: 40035 <u>Address:</u> 40036	Name:         Max_Position_Comfort_Line_2         Long description:         See Max_Position_Comfort_Line_1         Name:         Max_Position_Heat_Smoke_Line_2         Long description:         See Max_Position_Heat_Smoke_Line_1         Name:         Long description:         See Max_Position_Heat_Smoke_Line_1         Name:         Lock_Actuator_Hand_Speed_Line_2	Register:         Analog read/write points (Holding Registers)         Register:         Analog read/write points (Holding Registers)         Register:         Analog read/write points (Holding Registers)	Description:         This non-volatile parameter sets the maximum opening allowed during normal (comfort) operation         Description:         This non-volatile parameter sets the maximum opening allowed during Heat and Smoke operation         Description:         This non-volatile parameter sets the speed of the locking actuators during hand operation	Unit: Percent Unit: Percent
Address: 40034 Address: 40035 Address: 40036	Name:         Max_Position_Comfort_Line_2         Long description:         See Max_Position_Comfort_Line_1         Name:         Max_Position_Heat_Smoke_Line_2         Long description:         See Max_Position_Heat_Smoke_Line_1         Name:         Long description:         See Max_Position_Heat_Smoke_Line_1         Name:         Lock_Actuator_Hand_Speed_Line_2         Long description:         See Lock_Actuator_Hand_Speed_Line_1	Register:         Analog read/write points (Holding Registers)         Register:         Analog read/write points (Holding Registers)         Register:         Analog read/write points (Holding Registers)	Description:         This non-volatile parameter sets the maximum opening allowed during normal (comfort) operation         Description:         This non-volatile parameter sets the maximum opening allowed during Heat and Smoke operation         Description:         This non-volatile parameter sets the speed of the locking actuators during hand operation	Unit: Percent Unit: Percent Unit: Percent
Address: 40034 Address: 40035 Address: 40036	Name:         Max_Position_Comfort_Line_2         Long description:         See Max_Position_Comfort_Line_1         Name:         Max_Position_Heat_Smoke_Line_2         Long description:         See Max_Position_Heat_Smoke_Line_1         Name:         Long description:         See Max_Position_Heat_Smoke_Line_1         Name:         Lock_Actuator_Hand_Speed_Line_2         Long description:         See Lock_Actuator_Hand_Speed_Line_1	Register:         Analog read/write points (Holding Registers)	Description:         This non-volatile parameter sets the maximum opening allowed during normal (comfort) operation         Description:         This non-volatile parameter sets the maximum opening allowed during Heat and Smoke operation         Description:         This non-volatile parameter sets the speed of the locking actuators during hand operation	Unit: Percent Unit: Percent Unit: Percent
Address:         40034           40034         40035           Address:         40035           Address:         40036           Address:         40037	Name:         Max_Position_Comfort_Line_2         Long description:         See Max_Position_Comfort_Line_1         Name:         Max_Position_Heat_Smoke_Line_2         Long description:         See Max_Position_Heat_Smoke_Line_1         Name:         Long description:         See Max_Position_Heat_Smoke_Line_1         Name:         Lock_Actuator_Hand_Speed_Line_2         Long description:         See Lock_Actuator_Hand_Speed_Line_1         Name:         Lock_Actuator_Auto_Speed_Line_2	Register:         Analog read/write points (Holding Registers)         Register:         Analog read/write points (Holding Registers)	Description:         This non-volatile parameter sets the maximum opening allowed during normal (comfort) operation         Description:         This non-volatile parameter sets the maximum opening allowed during Heat and Smoke operation         Description:         This non-volatile parameter sets the speed of the locking actuators during hand operation         Description:         This non-volatile parameter sets the speed of the locking actuators during hand operation	Unit: Percent Unit: Percent Unit: Percent Unit: Percent

<u>Address:</u> 40038	Name: Lock_Actuator_Heat_Smoke_Speed_Line_2	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the speed of the locking actuators during Heat and Smoke operation	Unit: Percent
	Long description: See Lock_Actuator_Heat_Smoke_Speed_Line_1			
Addross:	Namo	Pogistor	Description:	L Init:
40039	Lock_Actuator_Service_Position_Line_2	Analog read/write points (Holding Registers)	This non-volatile parameter sets the service position of the actuator when the locking actuator is in service position	<u>orm.</u>
	Long description: See Lock_Actuator_Service_Position_Line_1			
Address:	Name:	Register:	Description:	Unit:
00025	Lock_Actuator_Blocked_Is_Closed_Line_2	Digital read/write points (Coils)	This non-volatile parameter sets whether obstacles during locking situation must be judged as a mal function or a normal situation on line 2	
	Long description: See Lock_Actuator_Blocked_Is_Closed_Line_1			
Address:	Name:	Register:	Description:	Linit:
00028	Use Local Input Line 2	Digital read/write points (Coils)	This non-volatile parameter sets weather local input must	<u>onic.</u>
00020		3	be active for line 2	
	Long description: See Use_Local_Input_Line_1		be active for line 2	
Address:	Long description: See Use_Local_Input_Line_1	Register:	be active for line 2	Unit:
Address: 00029	Long description: See Use_Local_Input_Line_1 Name: Retransmit_Local_Input_Line_2	Register: Digital read/write points (Coils)	be active for line 2           Description:           This non-volatile parameter sets whether local input must control motor line 2 or only transmitted	<u>Unit:</u>
<u>Address:</u> 00029	Long description:         See Use_Local_Input_Line_1         Name:         Retransmit_Local_Input_Line_2         Long description:         See Retransmit_Local_Input_Line_1	Register: Digital read/write points (Coils)	be active for line 2           Description:           This non-volatile parameter sets whether local input must control motor line 2 or only transmitted	<u>Unit:</u>
Address: 00029	Long description:         See Use_Local_Input_Line_1         Name:         Retransmit_Local_Input_Line_2         Long description:         See Retransmit_Local_Input_Line_1         Name:	Register: Digital read/write points (Coils)	be active for line 2           Description:           This non-volatile parameter sets whether local input must control motor line 2 or only transmitted           Description:	<u>Unit:</u> Unit:
Address: 00029	Long description:         See Use_Local_Input_Line_1         Name:         Retransmit_Local_Input_Line_2         Long description:         See Retransmit_Local_Input_Line_1         Name:         Hand_Time_Out_Line_2	Register: Digital read/write points (Coils) Register: Analog read/write points (Holding Registers)	be active for line 2         Description:         This non-volatile parameter sets whether local input must control motor line 2 or only transmitted         Description:         This non-volatile parameter sets the duration of time after hand operation, where automatic commands are ignored	<u>Unit:</u> <u>Unit:</u> Minutes
Address: 00029	Long description:         See Use_Local_Input_Line_1         Name:         Retransmit_Local_Input_Line_2         Long description:         See Retransmit_Local_Input_Line_1         Name:         Hand_Time_Out_Line_2         Long description:         See Hand_Time_Out_Line_1	Register:       Digital read/write points (Coils)       Register:       Analog read/write points (Holding Registers)	be active for line 2         Description: This non-volatile parameter sets whether local input must control motor line 2 or only transmitted         Description: This non-volatile parameter sets the duration of time after hand operation, where automatic commands are ignored	<u>Unit:</u> <u>Unit:</u> Minutes
Address: 00029	Long description:         See Use_Local_Input_Line_1         Name:         Retransmit_Local_Input_Line_2         Long description:         See Retransmit_Local_Input_Line_1         Name:         Hand_Time_Out_Line_2         Long description:         See Hand_Time_Out_Line_1	Register:         Digital read/write points (Coils)         Register:         Analog read/write points (Holding Registers)         Register:	be active for line 2         Description:         This non-volatile parameter sets whether local input must control motor line 2 or only transmitted         Description:         This non-volatile parameter sets the duration of time after hand operation, where automatic commands are ignored         Description:	Unit: Unit: Minutes
Address: 00029	Long description:         See Use_Local_Input_Line_1         Name:         Retransmit_Local_Input_Line_2         Long description:         See Retransmit_Local_Input_Line_1         Name:         Hand_Time_Out_Line_2         Long description:         See Hand_Time_Out_Line_1         Name:         Expected_No_Of_Actuators_Line_3	Register:         Digital read/write points (Coils)         Register:         Analog read/write points (Holding Registers)         Register:         Analog read/write points (Holding Registers)	be active for line 2         Description:         This non-volatile parameter sets whether local input must control motor line 2 or only transmitted         Description:         This non-volatile parameter sets the duration of time after hand operation, where automatic commands are ignored         Description:         This non-volatile parameter sets the duration of time after hand operation, where automatic commands are ignored         Description:         This non-volatile parameter sets the expected No of Actuators on the motor line	Unit: Unit: Minutes

Address:	Name:	Register:	Description:	<u>Unit:</u>
40042	Expected_No_Of_Lock_Actuators_Line_3	Analog read/write points (Holding Registers)	This non-volatile parameter sets the expected	
			configuration of locking actuators	
	Long description:			
	See Expected_No_Of_Lock_Actuators_Line_1			
Address:	Name:	Register:	Description:	Unit:
40043	Hand Speed Line 3	Analog read/write points (Holding Registers)	This non-volatile parameter sets the speed of the	Percent
			actuators during hand operation	
	Long description:		actuatore during hand operation	
	See Hand Speed Line 1			
Address:	Name:	<u>Register:</u>	Description:	<u>Unit:</u>
40044	Automatic_Speed_Line_3	Analog read/write points (Holding Registers)	I his non-volatile parameter sets the speed of the	Percent
			actuators during automatic operation	
	Long description:			
	See Automatic_Speed_Line_1			
Address:	Name:	Register:	Description:	Unit:
40045	Heat_Smoke_Speed_Line_3	Analog read/write points (Holding Registers)	This non-volatile parameter sets the speed of the	Percent
	-		actuators during Heat and Smoke operation	
	Long description:			•
	See Heat_Smoke_Speed_Line_1			
Address:	Name:	Register.	Description:	Linit:
40046	Max Position Comfort Line 3	Analog read/write points (Holding Registers)	This non-volatile parameter sets the maximum opening	Percent
40040			allowed during normal (comfort) operation	1 crocin
			allowed during hormal (connort) operation	
	Long description:			
	Long description: See Max Position Comfort Line 1			
	Long description: See Max_Position_Comfort_Line_1			1
Address:	Long description: See Max_Position_Comfort_Line_1	Register:	Description:	Unit:
<u>Address:</u> 40047	Long description: See Max_Position_Comfort_Line_1 Name: Max_Position_Heat_Smoke_Line_3	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the maximum opening	<u>Unit:</u> Percent
<u>Address:</u> 40047	Long description: See Max_Position_Comfort_Line_1 Name: Max_Position_Heat_Smoke_Line_3	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the maximum opening allowed during Heat and Smoke operation	Unit: Percent
<u>Address:</u> 40047	Long description: See Max_Position_Comfort_Line_1 Name: Max_Position_Heat_Smoke_Line_3 Long description: See Max_Position_Heat_Smoke_Line_1	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the maximum opening allowed during Heat and Smoke operation	Unit: Percent
Address: 40047	Long description:         See Max_Position_Comfort_Line_1         Name:         Max_Position_Heat_Smoke_Line_3         Long description:         See Max_Position_Heat_Smoke_Line_1	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the maximum opening allowed during Heat and Smoke operation	<u>Unit:</u> Percent
Address: 40047	Long description:         See Max_Position_Comfort_Line_1         Name:         Max_Position_Heat_Smoke_Line_3         Long description:         See Max_Position_Heat_Smoke_Line_1         Name:	Register: Analog read/write points (Holding Registers) Register:	Description: This non-volatile parameter sets the maximum opening allowed during Heat and Smoke operation	Unit: Percent
Address: 40047	Long description:         See Max_Position_Comfort_Line_1         Name:         Max_Position_Heat_Smoke_Line_3         Long description:         See Max_Position_Heat_Smoke_Line_1         Name:         Lock_Actuator_Hand_Speed_Line_3	Register: Analog read/write points (Holding Registers) Register: Analog read/write points (Holding Registers)	Description:         This non-volatile parameter sets the maximum opening allowed during Heat and Smoke operation         Description:         This non-volatile parameter sets the speed of the locking	Unit: Percent
Address: 40047 <u>Address:</u> 40048	Long description:         See Max_Position_Comfort_Line_1         Name:         Max_Position_Heat_Smoke_Line_3         Long description:         See Max_Position_Heat_Smoke_Line_1         Name:         Lock_Actuator_Hand_Speed_Line_3	Register: Analog read/write points (Holding Registers) Register: Analog read/write points (Holding Registers)	Description:         This non-volatile parameter sets the maximum opening allowed during Heat and Smoke operation         Description:         This non-volatile parameter sets the speed of the locking actuators during hand operation	Unit: Percent <u>Unit:</u> Percent
Address: 40047	Long description: See Max_Position_Comfort_Line_1 Name: Max_Position_Heat_Smoke_Line_3 Long description: See Max_Position_Heat_Smoke_Line_1 Name: Lock_Actuator_Hand_Speed_Line_3 Long description:	Register: Analog read/write points (Holding Registers) Register: Analog read/write points (Holding Registers)	Description:         This non-volatile parameter sets the maximum opening allowed during Heat and Smoke operation         Description:         This non-volatile parameter sets the speed of the locking actuators during hand operation	Unit: Percent Unit: Percent
Address: 40047	Long description:         See Max_Position_Comfort_Line_1         Name:         Max_Position_Heat_Smoke_Line_3         Long description:         See Max_Position_Heat_Smoke_Line_1         Name:         Lock_Actuator_Hand_Speed_Line_3         Long description:         See Lock_Actuator_Hand_Speed_Line_1	Register: Analog read/write points (Holding Registers) Register: Analog read/write points (Holding Registers)	Description:         This non-volatile parameter sets the maximum opening allowed during Heat and Smoke operation         Description:         This non-volatile parameter sets the speed of the locking actuators during hand operation	Unit: Percent Unit: Percent
Address: 40047	Long description: See Max_Position_Comfort_Line_1 Name: Max_Position_Heat_Smoke_Line_3 Long description: See Max_Position_Heat_Smoke_Line_1 Name: Lock_Actuator_Hand_Speed_Line_3 Long description: See Lock_Actuator_Hand_Speed_Line_1	Register: Analog read/write points (Holding Registers) Register: Analog read/write points (Holding Registers)	Description:         This non-volatile parameter sets the maximum opening allowed during Heat and Smoke operation         Description:         This non-volatile parameter sets the speed of the locking actuators during hand operation	Unit: Percent Unit: Percent
Address: 40047 Address: 40048	Long description:         See Max_Position_Comfort_Line_1         Name:         Max_Position_Heat_Smoke_Line_3         Long description:         See Max_Position_Heat_Smoke_Line_1         Name:         Lock_Actuator_Hand_Speed_Line_3         Long description:         See Lock_Actuator_Hand_Speed_Line_1         Name:         Lock_Actuator_Hand_Speed_Line_3	Register: Analog read/write points (Holding Registers) Register: Analog read/write points (Holding Registers)	Description:         This non-volatile parameter sets the maximum opening allowed during Heat and Smoke operation         Description:         This non-volatile parameter sets the speed of the locking actuators during hand operation         Description:         Description:         This non-volatile parameter sets the speed of the locking hand operation	Unit: Percent Unit: Percent
Address: 40047 Address: 40048 Address: 40049	Long description:         See Max_Position_Comfort_Line_1         Name:         Max_Position_Heat_Smoke_Line_3         Long description:         See Max_Position_Heat_Smoke_Line_1         Name:         Lock_Actuator_Hand_Speed_Line_3         Long description:         See Lock_Actuator_Hand_Speed_Line_1         Name:         Lock_Actuator_Hand_Speed_Line_1         Name:         Lock_Actuator_Auto_Speed_Line_3	Register:         Analog read/write points (Holding Registers)         Register:         Analog read/write points (Holding Registers)         Register:         Analog read/write points (Holding Registers)	Description:         This non-volatile parameter sets the maximum opening allowed during Heat and Smoke operation         Description:         This non-volatile parameter sets the speed of the locking actuators during hand operation         Description:         This non-volatile parameter sets the speed of the locking actuators during hand operation         Description:         This non-volatile parameter sets the speed of the locking actuators during automatic operation	Unit: Percent Unit: Percent Unit: Percent
Address: 40047 Address: 40048 <u>Address:</u> 40049	Long description:         See Max_Position_Comfort_Line_1         Name:         Max_Position_Heat_Smoke_Line_3         Long description:         See Max_Position_Heat_Smoke_Line_1         Name:         Lock_Actuator_Hand_Speed_Line_3         Long description:         See Lock_Actuator_Hand_Speed_Line_1         Name:         Lock_Actuator_Hand_Speed_Line_3         Lock_Actuator_Auto_Speed_Line_3         Lock_Actuator_Auto_Speed_Line_3	Register:         Analog read/write points (Holding Registers)         Register:         Analog read/write points (Holding Registers)         Register:         Analog read/write points (Holding Registers)	Description:         This non-volatile parameter sets the maximum opening allowed during Heat and Smoke operation         Description:         This non-volatile parameter sets the speed of the locking actuators during hand operation         Description:         This non-volatile parameter sets the speed of the locking actuators during hand operation         Description:         This non-volatile parameter sets the speed of the locking actuators during automatic operation	Unit: Percent Unit: Percent
Address: 40047 Address: 40048 <u>Address:</u> 40049	Long description: See Max_Position_Comfort_Line_1 Name: Max_Position_Heat_Smoke_Line_3 Long description: See Max_Position_Heat_Smoke_Line_1 Name: Lock_Actuator_Hand_Speed_Line_3 Long description: See Lock_Actuator_Hand_Speed_Line_1 Name: Lock_Actuator_Auto_Speed_Line_3 Long description: See Lock_Actuator_Auto_Speed_Line_3	Register:         Analog read/write points (Holding Registers)         Register:         Analog read/write points (Holding Registers)         Register:         Analog read/write points (Holding Registers)	Description:         This non-volatile parameter sets the maximum opening allowed during Heat and Smoke operation         Description:         This non-volatile parameter sets the speed of the locking actuators during hand operation         Description:         This non-volatile parameter sets the speed of the locking actuators during hand operation         Description:         This non-volatile parameter sets the speed of the locking actuators during automatic operation	Unit: Percent Unit: Percent

<u>Address:</u> 40050	Name: Lock_Actuator_Heat_Smoke_Speed_Line_3	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the speed of the locking actuators during Heat and Smoke operation	Unit: Percent
	Long description: See Lock_Actuator_Heat_Smoke_Speed_Line_1			
Address:	Name:	Ragistar.	Description:	Linit:
40051	Lock_Actuator_Service_Position_Line_3	Analog read/write points (Holding Registers)	This non-volatile parameter sets the service position of the actuator when the locking actuator is in service position	<u>onn.</u>
	Long description: See Lock_Actuator_Service_Position_Line_1			
Address:	Name:	Register:	Description:	Unit:
00030	Lock_Actuator_Blocked_Is_Closed_Line_3	Digital read/write points (Coils)	This non-volatile parameter sets whether obstacles during locking situation must be judged as a mal function or a normal situation on line 3	
	Long description: See Lock_Actuator_Blocked_Is_Closed_Line_1			
Address:	Name:	Register:	Description:	L Init:
00033	Use Local Input Line 3	Digital read/write points (Coils)	This non-volatile parameter sets whether local input must	<u>onic.</u>
		5 1 ( )	control motor line 3 or only transmitted	
	Long description: See Use_Local_Input_Line_1		control motor line 3 or only transmitted	
Address:	Long description: See Use_Local_Input_Line_1	Register:	control motor line 3 or only transmitted	Unit:
Address: 00034	Long description: See Use_Local_Input_Line_1 Name: Retransmit_Local_Input_Line_3	Register: Digital read/write points (Coils)	control motor line 3 or only transmitted         Description:         This non-volatile parameter sets whether local input for line 3 is retransmitted	<u>Unit:</u>
<u>Address:</u> 00034	Long description:         See Use_Local_Input_Line_1         Name:         Retransmit_Local_Input_Line_3         Long description:         See Retransmit_Local_Input_Line_1	Register: Digital read/write points (Coils)	control motor line 3 or only transmitted           Description:           This non-volatile parameter sets whether local input for line 3 is retransmitted	<u>Unit:</u>
Address: 00034	Long description:         See Use_Local_Input_Line_1         Name:         Retransmit_Local_Input_Line_3         Long description:         See Retransmit_Local_Input_Line_1         Name:	Register: Digital read/write points (Coils)	control motor line 3 or only transmitted         Description:         This non-volatile parameter sets whether local input for line 3 is retransmitted         Description:	<u>Unit:</u> Unit:
Address: 00034	Long description:         See Use_Local_Input_Line_1         Name:         Retransmit_Local_Input_Line_3         Long description:         See Retransmit_Local_Input_Line_1         Name:         Hand_Time_Out_Line_3	Register:         Digital read/write points (Coils)         Register:         Analog read/write points (Holding Registers)	control motor line 3 or only transmitted         Description:         This non-volatile parameter sets whether local input for line 3 is retransmitted         Description:         This non-volatile parameter sets the duration of time after hand operation, where automatic commands are ignored	<u>Unit:</u> <u>Unit:</u> Minutes
<u>Address:</u> 00034 <u>Address:</u> 40052	Long description:         See Use_Local_Input_Line_1         Name:         Retransmit_Local_Input_Line_3         Long description:         See Retransmit_Local_Input_Line_1         Name:         Hand_Time_Out_Line_3         Long description:         See Hand_Time_Out_Line_1	Register:         Digital read/write points (Coils)         Register:         Analog read/write points (Holding Registers)	control motor line 3 or only transmitted         Description:         This non-volatile parameter sets whether local input for line 3 is retransmitted         Description:         This non-volatile parameter sets the duration of time after hand operation, where automatic commands are ignored	<u>Unit:</u> <u>Unit:</u> Minutes
<u>Address:</u> 00034 <u>Address:</u> 40052	Long description:         See Use_Local_Input_Line_1         Name:         Retransmit_Local_Input_Line_3         Long description:         See Retransmit_Local_Input_Line_1         Name:         Hand_Time_Out_Line_3         Long description:         See Hand_Time_Out_Line_1	Register: Digital read/write points (Coils)	control motor line 3 or only transmitted         Description:         This non-volatile parameter sets whether local input for line 3 is retransmitted         Description:         This non-volatile parameter sets the duration of time after hand operation, where automatic commands are ignored         Description:	Unit: Unit: Minutes
Address: 00034 Address: 40052 Address: 40053	Long description:         See Use_Local_Input_Line_1         Name:         Retransmit_Local_Input_Line_3         Long description:         See Retransmit_Local_Input_Line_1         Name:         Hand_Time_Out_Line_3         Long description:         See Hand_Time_Out_Line_4	Register:         Digital read/write points (Coils)         Register:         Analog read/write points (Holding Registers)         Register:         Analog read/write points (Holding Registers)	control motor line 3 or only transmitted         Description:         This non-volatile parameter sets whether local input for line 3 is retransmitted         Description:         This non-volatile parameter sets the duration of time after hand operation, where automatic commands are ignored         Description:         This non-volatile parameter sets the expected No of Actuators on the motor line	Unit: Unit: Minutes

<u>Address:</u> 40054	Name: Expected_No_Of_Lock_Actuators_Line_4	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the expected configuration of locking actuators	<u>Unit:</u>			
	Long description: See Expected_No_Of_Lock_Actuators_Line_1						
<u>Address:</u> 40055	Name: Hand_Speed_Line_4	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the speed of the actuators during hand operation	<u>Unit:</u> Percent			
	Long description: See Hand_Speed_Line_1						
A 1 1	A L			11.5			
<u>40056</u>	Automatic_Speed_Line_4	Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the speed of the actuators during automatic operation	Percent			
	Long description: See Automatic_Speed_Line_1						
Addrose	Nama	Pogiator:	Description	Lipit:			
40057	Heat_Smoke_Speed_Line_4	Analog read/write points (Holding Registers)	This non-volatile parameter sets the speed of the actuators during Heat and Smoke operation	Percent			
	Long description: See Heat_Smoke_Speed_Line_1						
Adduces	News	Desister	Description	L Institu			
<u>Address:</u> 40058	Name: Max_Position_Comfort_Line_4	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the maximum opening allowed during normal (comfort) operation	Unit: Percent			
Address: 40058	Name: Max_Position_Comfort_Line_4 Long description: See Max_Position_Comfort_Line_1	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the maximum opening allowed during normal (comfort) operation	Unit: Percent			
Address: 40058	Name:         Max_Position_Comfort_Line_4         Long description:         See Max_Position_Comfort_Line_1	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the maximum opening allowed during normal (comfort) operation	Unit: Percent			
Address: 40058	Name:         Max_Position_Comfort_Line_4         Long description:         See Max_Position_Comfort_Line_1         Name:         Max_Position_Heat_Smoke_Line_4	Register: Analog read/write points (Holding Registers)	Description:         This non-volatile parameter sets the maximum opening allowed during normal (comfort) operation <u>Description:</u> This non-volatile parameter sets the maximum opening allowed during Heat and Smoke operation	Unit: Percent			
Address: 40058	Name:         Max_Position_Comfort_Line_4         Long description:         See Max_Position_Comfort_Line_1         Name:         Max_Position_Heat_Smoke_Line_4         Long description:         See Max_Position_Heat_Smoke_Line_1	Register:       Analog read/write points (Holding Registers)         Register:       Analog read/write points (Holding Registers)	Description:         This non-volatile parameter sets the maximum opening allowed during normal (comfort) operation         Description:         This non-volatile parameter sets the maximum opening allowed during Heat and Smoke operation	Unit: Percent Unit: Percent			
Address: 40058	Name:         Max_Position_Comfort_Line_4         Long description:         See Max_Position_Comfort_Line_1         Name:         Max_Position_Heat_Smoke_Line_4         Long description:         See Max_Position_Heat_Smoke_Line_1	Register: Analog read/write points (Holding Registers) Register: Analog read/write points (Holding Registers)	Description:         This non-volatile parameter sets the maximum opening allowed during normal (comfort) operation         Description:         This non-volatile parameter sets the maximum opening allowed during Heat and Smoke operation	Unit: Percent Unit: Percent			
Address: 40058 Address: 40059 <u>Address:</u> 40060	Name:         Max_Position_Comfort_Line_4         Long description:         See Max_Position_Comfort_Line_1         Name:         Max_Position_Heat_Smoke_Line_4         Long description:         See Max_Position_Heat_Smoke_Line_1         Name:         Long description:         See Max_Position_Heat_Smoke_Line_1         Name:         Lock_Actuator_Hand_Speed_Line_4	Register:       Analog read/write points (Holding Registers)         Register:       Analog read/write points (Holding Registers)         Register:       Analog read/write points (Holding Registers)	Description:         This non-volatile parameter sets the maximum opening allowed during normal (comfort) operation         Description:         This non-volatile parameter sets the maximum opening allowed during Heat and Smoke operation         Description:         This non-volatile parameter sets the speed of the locking actuators during hand operation	Unit: Percent Unit: Percent			
Address: 40058 Address: 40059 Address: 40060	Name:         Max_Position_Comfort_Line_4         Long description:         See Max_Position_Comfort_Line_1         Name:         Max_Position_Heat_Smoke_Line_4         Long description:         See Max_Position_Heat_Smoke_Line_1         Name:         Long description:         See Max_Position_Heat_Smoke_Line_1         Name:         Lock_Actuator_Hand_Speed_Line_4         Long description:         See Lock_Actuator_Hand_Speed_Line_1	Register:       Analog read/write points (Holding Registers)         Register:       Analog read/write points (Holding Registers)         Register:       Analog read/write points (Holding Registers)	Description:         This non-volatile parameter sets the maximum opening allowed during normal (comfort) operation         Description:         This non-volatile parameter sets the maximum opening allowed during Heat and Smoke operation         Description:         This non-volatile parameter sets the speed of the locking actuators during hand operation	Unit: Percent Unit: Percent Unit: Percent			
Address: 40058 Address: 40059 Address: 40060	Name:         Max_Position_Comfort_Line_4         Long description:         See Max_Position_Comfort_Line_1         Name:         Max_Position_Heat_Smoke_Line_4         Long description:         See Max_Position_Heat_Smoke_Line_1         Name:         Long description:         See Max_Position_Heat_Smoke_Line_1         Name:         Lock_Actuator_Hand_Speed_Line_4         Long description:         See Lock_Actuator_Hand_Speed_Line_1	Register:         Analog read/write points (Holding Registers)	Description:         This non-volatile parameter sets the maximum opening allowed during normal (comfort) operation         Description:         This non-volatile parameter sets the maximum opening allowed during Heat and Smoke operation         Description:         This non-volatile parameter sets the speed of the locking actuators during hand operation	Unit: Percent Unit: Percent Unit: Percent			
Address:         40058           40058         40059           Address:         40059           Address:         40060           Address:         40060	Name:         Max_Position_Comfort_Line_4         Long description:         See Max_Position_Comfort_Line_1         Name:         Max_Position_Heat_Smoke_Line_4         Long description:         See Max_Position_Heat_Smoke_Line_1         Name:         Long description:         See Max_Position_Heat_Smoke_Line_1         Name:         Lock_Actuator_Hand_Speed_Line_4         Long description:         See Lock_Actuator_Hand_Speed_Line_1         Name:         Lock_Actuator_Auto_Speed_Line_4	Register:         Analog read/write points (Holding Registers)         Register:         Analog read/write points (Holding Registers)	Description:         This non-volatile parameter sets the maximum opening allowed during normal (comfort) operation         Description:         This non-volatile parameter sets the maximum opening allowed during Heat and Smoke operation         Description:         This non-volatile parameter sets the speed of the locking actuators during hand operation         Description:         This non-volatile parameter sets the speed of the locking actuators during hand operation	Unit: Percent Unit: Percent Unit: Percent Unit: Percent			

Address: 40062	Name: Lock_Actuator_Heat_Smoke_Speed_Line_4	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the speed of the locking actuators during Heat and Smoke operation	<u>Unit:</u> Percent			
	Long description: See Lock_Actuator_Heat_Smoke_Speed_Line_1						
<u>Address:</u> 40063	Name: Lock_Actuator_Service_Position_Line_4	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the service position of the actuator when the locking actuator is in service position	<u>Unit:</u>			
<b>I</b>				T			
Address: 00035	Name: Lock_Actuator_Blocked_Is_Closed_Line_4	Register: Digital read/write points (Coils)	Description: This non-volatile parameter sets whether obstacles during locking situation must be judged as a mal function or a normal situation on line 4	<u>Unit:</u>			
	Long description: See Lock_Actuator_Blocked_Is_Closed_Line_1						
	News	Desister	Description	L los ito			
<u>Address:</u> 00038	Use_Local_Input_Line_4	Digital read/write points (Coils)	<u>Description:</u> This non-volatile parameter sets whether local input must control motor line 4 or only transmitted	<u>Unit:</u>			
	Long description: See Use_Local_Input_Line_1						
<u>Address:</u> 00039	Name: Retransmit_Local_Input_Line_4	Register: Digital read/write points (Coils)	Description: This non-volatile parameter sets whether local input for line 4 is retransmitted	<u>Unit:</u>			
	Long description: See Retransmit_Local_Input_Line_1						
<u>Address:</u> 40064	Name: Hand_Time_Out_Line_4	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the duration of time after hand operation, where automatic commands are ignored	<u>Unit:</u> Minutes			
	Long description: See Hand_Time_Out_Line_1						
<u>Address:</u> 40065	Name: Actual_Position_Min_Transmit_Interval	Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets the minimum retransmit interval of Actual Position for each motor line	<u>Unit:</u> Seconds			
	Long description: This non-volatile parameter determines the minimum retransmit interval of the actual position for all motor lines. Actual position will be transmitted if the position has changed, but this non-volatile parameter determines how often the changes in position will be transmitted. Range: 0 = No retransmit. 1 - 255 seconds.						

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Address:	Name:	Register:	Description:	<u>Unit:</u>			
40066	Objects_10_Monitor	Analog read/write points (Holding Registers)	I his non-volatile parameter sets what object to monitor for cyclic receive				
	Long description: This non-volatile parameter determines which objects to monitor for cyclic updates. 1. None: No objects are monitored. 2. Maximum position: The maximum position input object for each motor line is monitored. 3. Close: The close object for each motor line is monitored. 4. Max. position and close: The maximum position object and the close object for each motor line are monitored.						
<u>Address:</u> 40067	Name: Objects_Receive_Monitor_Time_Out	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter determines how often updates on monitored objects must be received	<u>Unit:</u> Minutes			
	Long description: This non-volatile parameter determines how often updates on monitored objects must be received – if monitoring is enabled by the Objects_To_Monitor object. If the time between object updates exceeds this period, actuators will be moved to closed position. Range: 2 - 255 minutes.						
Address: 40068	Name: Line_Communication_Error_Threshold	Register: Analog read/write points (Holding Registers)	Description: This non-volatile parameter sets how tolerant the WBA11M must be before an sporadic MotorLink communication error is transmitted	<u>Unit:</u>			
	Long description:         Sporadic communication errors can appear in the communication between WEA11M and the MotorLink™ actuators.         This non-volatile parameter determines how tolerant the WBA11M must be before an error is transmitted.         Range:         1. Commissioning: Any disturbance is handled as an error.         2. Normal: Normal tolerance towards sporadic errors.         3. High: High tolerance towards sporadic errors – to be used in noisy environments.         4. Very high: Even higher tolerance towards sporadic errors – to be used in very noisy environments.         5. Disabled: No communication errors shown.						
Address: 30039	<u>Name:</u> BaseBoard HW Type	Register: Analog read only points (Input Registers)	Description: Base board hardware type	<u>Unit:</u>			
	Long description: This object contains information about the baseboard hardware type. 17 (= 11 hex): WBA11M.						
Address: 30040	Name: BaseBoard_SW_Version	Register: Analog read only points (Input Registers)	Description: Base board software version	<u>Unit:</u>			
	Long description: This object contains information about the baseboard sotware version. The hexadecial representation corresponds to the baseboard firmware version label. E.g. 160 = A0 hex, is firmware version A0.						