WBS-01 Quick guide to configuration

This guide is for highlighting the various necessary configuration phases sequentially, in order to enable the main functions of WBS-01 quickly in a typical application with LAE electronic controllers. For more detailed information on the various product functions, please read the user's manual which is included in the CD supplied with the WBS-01.

1. Installation and configuration of the IP addresses

After the WBS-01 has been powered up and connected to the Ethernet and to controllers, the first operation to be performed is the configuration of the IP addresses. This is necessary before doing anything else, in order to allow access to the WBS-01 from the local network and then perform the other configuration operations. Moreover, this will allow access Internet.

Please read the "Installation Guide" included in the product package and chapters 1 and 2 of the user's manual III. The installation file of the "NetBiter Config" configuration utility is included in the CD.

2. Users [Setup > Users] - 🖽 6.1

The pre-defined user "admin" has access rights to all menus and may be associated to the system installer. For safety reasons, it's important to modify the pre-defined user's password (admin). Other users may be created with various access rights for normal use. For every user you may specify the e-mail address, his mobile (if a GSM modem is present for sending SMS), which alarm classes the user must receive, the language for the texts of the various pages.

ogged i	in as: Admi	inistrator									Stax Pastries 🎒	Log
elect p	age	- 1	Status De	vices A	larm I	Log Config	uration Se	tup Abou	ut			
sers	Modbus	Modem	Regional	E-Mail	SNMP	Webserve	r Ethernet	System	NetBiter.net			
N	lodify Us	er										
User I	ID										user	
Name	i.									Plant Manag	er	
E-mai	il									info@stax-pa	astries.com	
Mobile	3										3692581470	
Alarm	l class									1 2 3	456789	10
Recei	ve log files	via E-mail									Enable	
Langu	lage										English	
Show	Device bro	owser in m	enu								Enable	
User I	level										Admin	
Passw	vord								Change passw	vord: 📃		
Rene:	at nassword	4									F	_

back save delete



3. Clock, data format and plant information [Setup > Regional] – \square 6.4

In this phase, the internal clock is to be set and you may enable automatic synchronization with an NTP server via Internet. Moreover, you may set the decimal point separator, log file value separator, site name and description.

elect p	in as: Admi page	inistrator •	Status Dev	vices /	Alarm	Log C	Configur	ation	Setu	up Abo	ut			_	Stax Pa	stries 🖰	Log
ers	Modbus	Modem	Regional	E-Mail	SNMP	Webs	server	Ether	rnet	System	N	NetBiter.net	1				
I II T	ime and [Date															
Date	(yyyy-mm-	dd)													2010	0 - 11	08
Time	(hh:mm:ss	;)													1(: 02	: 54
Time	zone (* Tii	me zone use	s daylight savin	g time)						(GMT	+01	:00) Europe	/Berlin *				÷
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NTP s	server												pool.ntp	o.org			
Updat	te interval															2 hour	÷
Decin	nal separat	eparator or and log	file value sep	parator									Dot	(.) and	Comma	(,)	
	/lodule in	formatio	n														
Site r	name									1	Sta	ax Pastries					
More	information	ı															*
																	-
															sa	ve settin	gs

4. E-mail [Setup > E-Mail] - 🖽 6.5

To allow e-mail sending, it's necessary to insert SMTP server name or address, which is usually given by the Internet access provider, authentication data if required, name and e-mail address of sender.

iged in as: Administrator	Stax Pastries 🔒 Log
ect page - Status Devices Alarm Log Configuration Setup About	
ers Modbus Modem Regional E-Mail SNMP Webserver Ethernet System NetBit	er.net
SMTP Settings	
SMTP Server (IP-number or domain name)	smtp.mailserver.com
Port number	25
SMTP Authentication	plain
User name	info@stax-pastries.com
Password	•••••
Sender (Name of sender)	Stax WS003011FB3AB7
Reply Path (E-mail address)	info@stax-pastries.com
Send test E-mail (E-mail address)	send

save settings



5. Templates [Configuration > Templates] – 🕮 7.2

Templates define the controller registers which may be used, with relevant information on address, representation scale, enumeration, limits etc. They simplify configuration of display pages, data logging and alarms. Templates of the most popular LAE controllers have already been loaded in our factory. Templates of other controllers may be required or downloaded from LAE electronic website.

ect p	page - Status Devices Alarm Log 🤇	Configuration Setu	p About		
npla	ates Devices Pages Alarm Log Bindings				
D	Device Templates				
	Description				
1	LAE AD2-5	edit	restore	backup	delete
2	LAE LTR-5	edit	restore	backup	delete
3	LAE AR2-27	edit	restore	backup	delete
4	LAE AR2-28	edit	restore	backup	delete
5	LAE MS27	edit	restore	backup	delete
6	LAE AD3-5	edit	restore	backup	delete
7	LAE AT1-5	edit	restore	backup	delete
8	LAE LCD32	edit	restore	backup	delete

6. Devices [Configuration > Devices] – 2 7.3

Before performing configuration of this phase, all controllers connected must have an already programmed unique Modbus address and in the previous phase (5) the templates of all controllers used must already have been loaded.

You should then insert all controllers connected and assign its own template and Modbus address to every one of them. The address that you insert must match the address set in the controller. It's also possible have the "autodetect" function started, which will perform automatic detection of the controllers connected and the automatic association of the relevant templates, by pressing button "autodetect".

ect p	age 🔻 Status Dev	vices Alarm Log Configuration	Setup About		
npla	tes Devices Pages Alarm	Log Bindings			
_					
D	evice Configuration				
	Description	Template	Address		
1	RD01	LAE AD2-5	1	edit	delete
2	RD02	LAE AD2-5	2	edit	delete
3	RD03	LAE AD2-5	3	edit	delete
4	BF01	LAE AR2-28	4	edit	delete
5	BF02	LAE AR2-28	5	edit	delete
6	BF03	LAE AR2-28	6	edit	delete
7	BF04	LAE AR2-28	7	edit	delete
8	FF01	LAE AD2-5	8	edit	delete
9	FF02	LAE AD2-5	9	edit	delete
10	CR01	LAE AR2-27	10	edit	delete
11	TD01	LAE LTR-5	21	edit	delete
12	TD02	LAE AD3-5	24	edit	delete

autodetect add device



7. Pages [Configuration > Pages] – 🖽 7.4

In this phase you may create the pages where the current values of controller data are displayed. In these pages you may also modify writable data, such as the Setpoint (please take into account that the access to all registers present in the template is however possible through "Devices" of the menu appearing on the top bar. In the pages created you may also add an image, which could for example represent the arrangement of the various controllers in the plant or in a certain area.

igeo in as	: Administrator			Stax Pastrie	as 🗍 noi
lect page	 Status Device 	es Alarm Log Configuration Setup	About		
nplates	Devices Pages Alarm	Log Bindings			
Gene	eral Page configuration				
(44)		Picture (11/768 kbyte used):	Page Name:		
		Sfoglia	Shop		
		upload delete	Overview name:		
	Star Parties	The picture can get be wider then 970ey	T1 temperatures		
	PEGATE (AND 10 CONT	larger then 50k and it needs to be in .gif.	Advanced overview name:	-	
_		.png or .jpg format!	Setpoint		
Conf	iguration Left Overview		set as start page	Save s	ettings
Conf	iguration Left Overview	Device	set as start page	save s	ettings
Conf	iguration Left Overview Description	Device 8001	Set as start page Parameter T1 - Air temperature	save s	ettings
1 Conf	iguration Left Overview Description RD01 - T1 temperature	Device RD01	set as start page Parameter T1 - Air temperature T1 - Air temperature	edit	ettings delete
Conf	iguration Left Overview Description RD01 - T1 temperature RD02 - T1 temperature	RD01 RD02 RD02	set as start page Parameter T1 - Air temperature T1 - Air temperature T1 - Air temperature	edit	delete
Conf 1 2 3	iguration Left Overview Description RD01 - T1 temperature RD02 - T1 temperature RD03 - T1 temperature	Device RD01 RD02 RD03	set as start page Parameter T1 - Air temperature	edit edit	delete delete delete
Conf 1 2 3 4	iguration Left Overview Description RD01 - T1 temperature RD02 - T1 temperature RD03 - T1 temperature BF01 - T1 temperature	Device RD01 RD02 RD03 BF01	set as start page Parameter T1 - Air temperature	edit edit edit	delete delete delete delete
Conf 1 2 3 4 5	iguration Left Overview Description RD01 - T1 temperature RD02 - T1 temperature RD03 - T1 temperature BF01 - T1 temperature BF02 - T1 temperature	Device RD01 RD02 RD03 BF01 BF02	set as start page Parameter T1 - Air temperature	edit edit edit edit edit	delete delete delete delete delete
Conf 1 2 3 4 5 6	iguration Left Overview Description RD01 - T1 temperature RD02 - T1 temperature RD03 - T1 temperature BF01 - T1 temperature BF02 - T1 temperature BF03 - T1 temperature	Device RD01 RD02 RD03 BF01 BF02 BF03	set as start page Parameter T1 - Air temperature	edit edit edit edit edit edit edit	delete delete delete delete delete delete
Confi 1 2 3 4 5 5 6 7	iguration Left Overview Description RD01 - T1 temperature RD02 - T1 temperature RD03 - T1 temperature BF01 - T1 temperature BF02 - T1 temperature BF03 - T1 temperature BF04 - T1 temperature	Device RD01 RD02 RD03 BF01 BF02 BF03 BF04	set as start page Parameter T1 - Air temperature T1 - Air temperature	edit edit edit edit edit edit edit edit	delete delete delete delete delete delete delete
Confi 1 2 3 4 5 6 7 8	iguration Left Overview Description RD01 - T1 temperature RD02 - T1 temperature RD03 - T1 temperature BF01 - T1 temperature BF02 - T1 temperature BF03 - T1 temperature BF04 - T1 temperature	Device RD01 RD02 RD03 BF01 BF02 BF03 BF04	set as start page Parameter T1 - Air temperature	edit edit edit edit edit edit edit edit	delete delete delete delete delete delete delete delete delete
Confi 1 2 3 4 5 6 7 8 9	iguration Left Overview Description RD01 - T1 temperature RD02 - T1 temperature RD03 - T1 temperature BF01 - T1 temperature BF02 - T1 temperature BF03 - T1 temperature BF04 - T1 temperature	Device RD01 RD02 RD03 BF01 BF02 BF03 BF04	set as start page Parameter T1 - Air temperature	edit edit edit edit edit edit edit edit	delete delete delete delete delete delete delete delete delete delete

Cont	iguration Right Overview			
	Description	Device	Parameter	
11	FF01 - T1 temperature	FF01	T1 - Air temperature	edit delete
10	5500 T1	5500	T1 A:	

ogged in as: Administrator	Stax Pastries 🎒 Logo
Select page	
emplates Devices Pages Alarm Log Bindings	
Edit parameter 1 (Shop)	
Device	RD01 👻
Group	Inputs 👻
Parameter	T1 - Air temperature 👻 🐺
Description	RD01 - T1 temperature
Presentation format	Default 👻
Presentation scaling	

back save settings



8. Alarm [Configuration > Alarm] – 🖽 7.5

.ogged in as: Administrator	Stax Pastries 실 Log
Select page Status Devices Alarm Log Configuration Setup About	
emplates Devices Pages Alarm Log Bindings	
Alarm Settings	
SMS alarm	Disable 👻
Email alarm	Enable 👻
SNMP alarm	Disable 👻
Manual alarm acknowledge	Enable 🔻

save settings

	Description	Device		
1	TD01 Alarm	TD01	edit	delete
2	TD01 Communication	TD01	edit	delete
3	TD02 Alarm	TD02	edit	delete
4	TD02 Communication	TD02	edit	delete
5	RD01 Communication	RD01	edit	delete

add alarm parameter

To configure alarm management you have to define some general settings such as enabling various ways to signal alarms remotely and above all the alarm conditions that you wish to detect. You may define alarm events linked to the controller alarm state value, to the value of a variable, such as temperature, referred to a threshold, or linked to communication failure.

last ange	Ning Alarm	Lon Configuration	Cabus	About	July 1		
elect page	evices Alarm	Log Configuration	Setup	About			
mplates Devices Pages Alarr	m Log Bindin	ngs					
Parameter Select							
Device					TD01		•
Group						Status	•
Parameter						Alarm	•
Alarm Trigger Operation							
				15 14 12 12 11 10 0 0	7654	3 2 1	0
				- 1.1 14 1.3 17 11 11 7 8			
Trig On	Equal to	▼ Value ▼ 1					V
Trig On	Equal to	▼ Value ▼ 1					V
Trig On	Equal to	▼ Value ▼ 1				ŎŌŌ	V
Trig On Alarm Properties	Equal to	▼ Value ▼ 1					V
Trig On Alarm Properties Alarm Class	Equal to	▼ Value ▼ 1				Class 1	v V
Trig On Alarm Properties Alarm Class Severity	Equal to	▼ Value ▼ 1			Major	Class 1	•
Trig On Alarm Properties Alarm Class Severity Description	Equal to	Value Value V		TD01 A	Major	Class 1	
Trig On Alarm Properties Alarm Class Severity Description Subject	Equal to	Value Value V	A	TD01 Al	Major	Class 1	
Trig On Alarm Properties Alarm Class Severity Description Subject Message	Equal to	Value Value V	A	TD01 Allarm on TD01 (LTR-5)	Major	Class 1	· ·
Trig On Alarm Properties Alarm Class Severity Description Subject Message	Equal to	Value V 1	A	TD01 Allarm on TD01 (LTR-5)	Major arm	Class 1	- -
Trig On Alarm Properties Alarm Class Severity Description Subject Message	Equal to	Value V 1	A	TD01 Allarm on TD01 (LTR-5)	Major	Class 1	- -



9. Log [Configuration > Log] – 🖽 7.6

gged in as: Administrator	Stax Pastries 실 Log
elect page - Status Devices Alarm Log Configuration Setup About	
mplates Devices Pages Alarm Log Bindings	
General Log Settings	
Estimated Log Time (Estimated send interval if sending of log files is enabled)	41 Day
Log Interval	10 min 👻
Log Type Log	gging stop when log file is full 👻
Maximum send log interval	Send log when full 👻

start stop

Log Param	eters			
	Description	Device		
1	RD01-T1	RD01	edit	delete
2	RD02-T1	RD02	edit	delete
3	RD03-T1	RD03	edit	delete
4	BF01-T1	BF01	edit	delete
5	BF02-T1	BF02	edit	delete
6	BF03-T1	BF03	edit	delete
7	BF04-T1	BF04	edit	delete
8	FF01-T1	FF01	edit	delete
9	FF02-T1	FF02	edit	delete
10	CR01-T1	CR01	edit	delete
11	TD01-Inp	TD01	edit	delete
12	TD02-T1	TD02	edit	delete

Here you can define some general settings such as data logging frequency and data sending frequency via e-mail and you define which data have to be logged.

Select page	•	Statu	is Devi	ices /	Alarm	Log	Configuration	Setup	About				
emplates	Devices	Pages	Alarm	Log	Binding	gs							
Edit l	og parame	eter											
Device											RD01		•
Group												Inputs	•
Parameter										T1 - Air temp	erature	+ 🖃	Ŷ
Delta loggi	ng (value ch	ange since	last logging	g)								Disable	
Description	ı									RD01-T1			

back save settings

