Manual –
Vocal Element

Version 1.0.3 - 2016

Contents

10. Introduction

The vocal elements signal towers play signal tones, music and spoken text in a unique way.

The vocal element can be quickly integrated into the existing signal tower, and the bayonet mechanism ensures that the unit is immediately ready to function.

The vocal element is connected to the PC or laptop via the USB connection cable included in delivery. Existing audio files such as signal tones, music or spoken texts can be easily saved to the vocal element via the supplied software.

The state-of-the-art technology ensures that up to 50 customer-specific mp3 or wav files can be stored and up to 15 of these files can be triggered remotely.

The vocal elements feature outstanding tone and sound quality and an adjustable sound output.

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310.645.005

WERMA reserves the right to make technical improvements to the product and accepts no responsibility for mistakes or printing errors which may be contained in this documentation.

11. Assembly

Description
Vocal element
USB cable 1,8m
Vocal element instruction leaflet

12. System requirements

- USB port
- Windows 2000 Service Pack 4, Windows XP, Windows Vista, Windows 7, Windows 8 or Windows 8.1
- Windows Server 2000 Service Pack 4, Windows Server 2003 or Windows Server 2008
- Microsoft Framework 2.0
  (Will be installed together with the vocal element software if not available on your PC.)

13. Safety instructions

- Please also refer to the instructions for the signal tower.

- Only for use with 24 V signal towers.

D	Anschluss **ausschließlich** durch ausgebildete Elektro-Fachkräfte.
GB	Electrical connection is to be made by trained electrical specialists **only**.
F	Le branchement doit **uniquement** être effectué par des professionnels.
I	Il collegamento deve essere eseguito **solo** da elettricisti specializzati.
E	La conexión **sólo** debe ser realizada por electricistas debidamente formados.
PT	A ligação deve ser feita **exclusivamente** por profissional eléctrico especializado.
NL	De aansluiting mag **enkel** gebeuren door erkende vakmensen.
CZ	Připojení smí **provádět** pouze kvalifikovaný personál.
PL	Podłączenie **wyłącznie** przez specjalistów-elektryków.
FI	Liittäminen kuuluu **ainoastaan** koulutettujen sähköalan ammattilaisten tehtäviin.
RUS	Подключение проводится только специалистом-электриком.
TR	Bağlantı **sadece** eğitimli elektrik teknisyenleri tarafından yapılmalıdır.
CN	布线需由专业电工执行

14. Specifications

Description	Value
Operating voltage	24 V DC
Current consumption	Max. 400 mA
Duty cycle	100%
Life duration	> 5.000 h
Temperature	-20° … +50°C
Number of tones	Max. 50; remote triggering of max. 15
Total recording time	>=13 h for medium quality

15. Installation

1. Connect the vocal element via USB port to your PC.
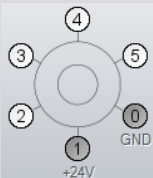
2. The vocal element will be recognized as a data storage medium. Open the file to display the stored data.

3. Start 'vocal_element.exe'.

Note: Microsoft Framework 2.0 will be installed together with the vocal element software if not available on your PC. **Administration rights are required for the installation process.**

4. The vocal element software starts automatically and you can now save the desired files on the vocal element, see 8.

16. Software

	Click on this icon to add mp3- and wav-files to the vocal element. A maximum of 50 files can be added, but only the first 15 files will be played externally by the vocal element.
	If you want to delete files, then select the file to be deleted and click on this icon.
	These icons can be used to customize the recording position of the files.
	Click on this icon to export all the added files in the defined recording position to a "playlist" and then save them.
	Click on this icon to import a previously created "playlist".
	Play a selected file.
	Stop file replay.
Volume 100%	The volume control can be used to set an individual volume level for each tone. The minimum setting is 15% of the volume. The maximum setting is 100%.

	Access the product manual.
	Show the current version.
	Click on this icon to store the files on the vocal element and log the vocal element out from your PC. **Note:** Please wait for the appropriate messages to appear and only then detach the vocal element from your PC.
	When a file is selected the relevant wiring combination in the terminal element will be displayed in this simulation. When choosing a PIN assignment in the simulation you will receive the appropriate file. **Note:** The triggering refers to the mounting position, see 9.
	Click on this icon to open the manual.

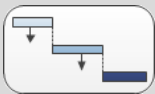|	
	Click on this icon to open a new window and make the following settings.

Input mode

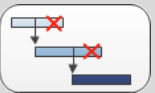|	
	The chosen file is played. In addition, can be defined the external volume control.
	All the files (max. 50) stored on the vocal element will be played one after the other, starting with the first file. The external volume control cannot be selected, if this input mode is chosen.

Start mode

	The currently activate file will be played to the end even if a new file is selected. The new file will then be played afterwards.
	The currently activate file will be stopped if a new file is selected.

Sound quality

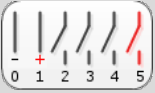|	
	High quality sound output with slow transfer time.
	Medium quality sound output with normal transfer time.
	Low quality sound output with fast transfer time.
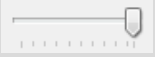
Max. volume	
	The volume control can be used to set an individual volume level for all tones. The minimum setting is 15% of the volume. The maximum setting is 100%.

External volume control	
	No external volume control.
	External volume control on pin 5 (+24 V DC). The volume can be defined in the following settings via the additional volume control: 50%, 25% and 12.5%.
	External volume control on pins 4 and 5 (+24V DC). The volume can be set as follows: | Input 4	Input 5	percentage volume
---	---	---
0	0	100%
1	0	50%
0	1	25%
1	1	12.5%	

Example:

1. Add a file:

Add

Define recording position

Save and log out safely

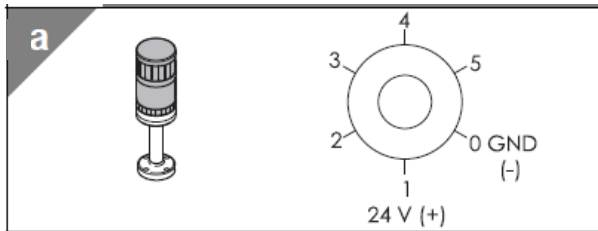2. Create a playlist:
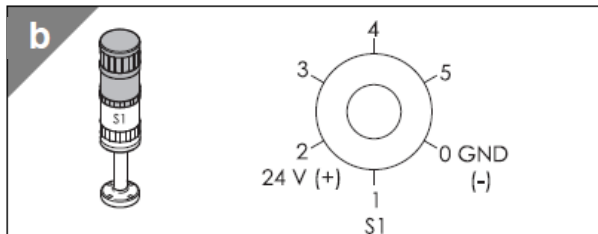

Add

Define recording position

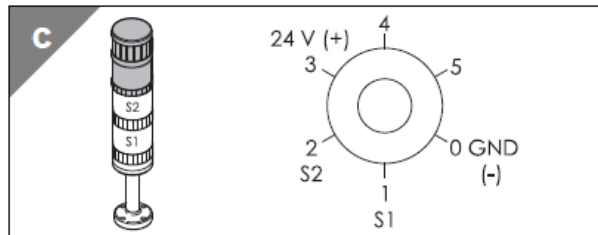Export and save

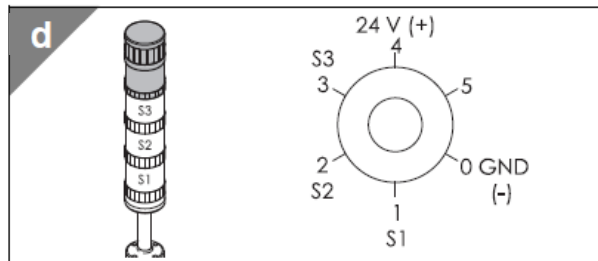Save and log out safely

17. Assembly

a

Aufnahme-position recording position	Anschluss Nummer Terminal number (NC = nicht belegt not connected)				
	1	2	3	4	5
1		24 V(+)	NC	NC	NC
2		NC	24 V(+)	NC	NC
3		24 V(+)	24 V(+)	NC	NC
4		NC	NC	24 V(+)	NC
5		24 V(+)	NC	24 V(+)	NC
6		NC	24 V(+)	24 V(+)	NC
7		24 V(+)	24V(+)	24 V(+)	NC
8	24 V(+)	NC	NC	NC	24 V(+)
9		24 V(+)	NC	NC	24 V(+)
10		NC	24 V(+)	NC	24 V(+)
11		24 V(+)	24 V(+)	NC	24 V(+)
12		NC	NC	24 V(+)	24 V(+)
13		24 V(+)	NC	24 V(+)	24 V(+)
14		NC	24 V(+)	24 V(+)	24 V(+)
15		24 V(+)	24 V(+)	24 V(+)	24 V(+)

b

Aufnahme-position recording position	Anschluss Nummer Terminal number (NC = nicht belegt not connected)				
	1	2	3	4	5
1			24 V(+)	NC	NC
2			NC	24 V(+)	NC
3			24 V(+)	24 V(+)	NC
4	S1	24 V(+)	NC	NC	24 V(+)
5			24 V(+)	NC	24 V(+)
6			NC	24 V(+)	24 V(+)
7			24 V(+)	24 V(+)	24 V(+)

c

Aufnahme-position recording position	Anschluss Nummer Terminal number (NC = nicht belegt not connected)				
	1	2	3	4	5
1				24 V(+)	NC
2	S1	S2	24 V(+)	NC	24 V(+)
3				24 V(+)	24 V(+)

d

Aufnahme-position recording position	Anschluss Nummer Terminal number (NC = nicht belegt not connected)				
	1	2	3	4	5
1	S1	S2	S3	24 V(+)	24 V(+)

18. Volume setting