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LINORTEK
Netbell-KMB Network All In One
Extra Loud Multi Tone Buzzer
Clock System

LINORTEK Netbell-KMB Network All In One Extra Loud Multi Tone Buzzer Clock System Instruction Manual

Contents

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LINORTEK Netbell-KMB Network All In One Extra Loud Multi Tone Buzzer Clock System

Product Specifications

- Netbell-KMB Server
- 3M RJ45 Cable (01-390-00028)
- 3M Power Cable (01-850-00029)
- 24VAC Power Supply (01-850-00024)
- Mounting Brackets

Product Usage Instructions

Safety Instructions:
When the RED LED is blinking and the GREEN LED is on (called Bootload state), a firmware update is ongoing. Cutting off the device's power during a firmware update (red LED blinking, green LED on) will damage the firmware and render the SERVER inoperative. In such cases, it will need to be returned to the factory for resetting.

Wiring Instructions:
Follow the wiring instructions provided in the manual to connect the Netbell-KMB server properly.

Tone Selection and Activation:

- To access the switch, put the Netbell-KMB connector side facing you, open the lid of the Netbell-KMB server, you will see a line of ToneSetup switches marked from 1-6. Refer to the picture in the manual for details on selecting tones.
- For instructions on accessing the Netbell Server and adding schedules to ring the bell, please follow the Netbell Setting Instructions provided.

FAQ

- **What should I do if the RED LED is blinking and the GREEN LED is on?**
  This indicates a firmware update is ongoing. Do not cut off the power during this process as it may damage the firmware. Contact the factory for resetting if needed.

- **How do I select different tones for the bell?**

  To select tones, locate the ToneSetup switches marked from 1-6 inside the Netbell-KMB server. Refer to the manual for detailed instructions.

Packing List

- Netbell-KMB Server (1)
- 3M RJ45 Cable (01-390-00028) (1)
- 3M Power Cable (01-850-00029) (1)
- 24VAC Power Supply (01-850-00024) (1)
- Mounting Brackets (1)
- Netbell Setting Instructions
- Packing List and Wiring Instructions

Safety Instructions

- If the device is not powered via an Ethernet cable, use only the power adapter provided by Linortek that comes with your order. Other power supplies may damage or destroy the device, affect its behavior, or induce noise.
- Avoid placing the cables where people may trip over them or where they may be exposed to mechanical pressure as this may damage them.
- Do NOT install the device in rooms with high humidity. Do NOT immerse the device in water and do NOT spill or pour liquids of any kind onto or into the device.
- Do NOT install the device in surroundings at risk for explosions. Do NOT use the device if you smell gas or other potentially explosive fumes.
- Do NOT use the device during thunderstorms. Lightning striking the power grid may cause electric shocks.
- Do NOT remove the device's power supply (Ethernet cable when using PoE, power adapter when not using PoE) when the RED LED is blinking and the GREEN LED is on (called Bootload state); a firmware update is ongoing. Cutting off the device's power during a firmware update (red LED blinking, green LED on) will damage the firmware and render the SERVER inoperative. In such cases, it will need to be returned to factory for resetting.

Wiring Instructions
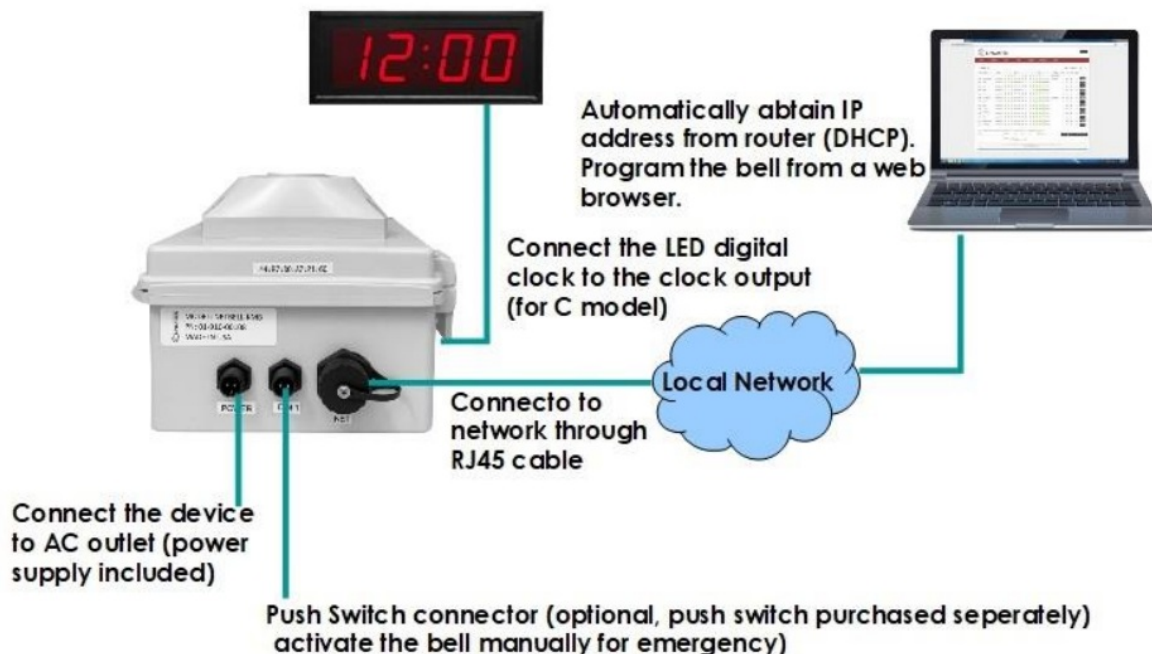
- Power supply wiring: Wire one side the power cable to the 24VAC power supply AC terminals (use both terminals). Plug the power supply to a suitable AC outlet, plug the CP connector into Server at the location labelled POWER.
- Plug RJ45 cable into the NET connector, connect the other side of the RJ45 cable to the router or a network switch. Please NOTE: the Netbell-K board will work only on 1000Mbps (Gigabit) port/switch, it will not work on 10/100Mbps. If you are unable to connect to the Netbell-K server, please check with your IT department to make sure the Ethernet switch you are connecting to is 1000Mbps (Gigabit).
- Push switch (available to purchase separately) wiring: Plug the push switch to the digital input labelled DIN 1 if you want to ring the buzzer manually for emergency. For instructions of how to configure the push switch to trigger the buzzer, please follow the Use Digital Input to Ring Bells Manually Instructions.

Tone Selection and Activation

Tone selection

- There are 80 tones that come with the buzzer. To check the tones, visit our website Netbell Stand Sound List page: **https://www.linortek.com/netbell-standard-sound-list/**. On the Netbell-KMB Tone List section, we have listed all the 80 built-in tones, each tone has a name and tone number:

- The tones are grouped and controlled by the Tone Selector Switch on the control board. Each group has a base (ground) tone and 3 external tones. The Netbell-KMB use tone#9 as the base tone by default, and tone #57,11

and 82 as the external tones, ToneSetup switch#3 is at ON position on the control board (please see image below).

- To select a base tone, click the PLAY icon ▶️ above the file name, the tone will be played on your computer if you have speakers on your PC. Once the base tone is selected, write the tone number down, you will be able to see what are the external tones come with this base tone, and what switches that need to be adjusted to use that group of tones from the table "Selection of the tones" at the Appendix of this instruction.
- Please note: not every tone can be used for base tone (for example, tone#13). If the specific tone you want to use is not on the base (Grund-Tone No.) list (i.e., tone#13), but on the external tone list, you can program that tone from the software to use on the schedule.

Tone Selector Switch:

- As a basic rule, the desired base tone (♪, see tone table in the Appendix) is set with the tone selector switch on the board. The corresponding additional tones (C1, C2, C1+C2) can be gathered from the table "Selection of the tones".
- When you put the switch on UP position, that switch is set as OFF. To set the switch ON, put it to DOWN position. As noted earlier, tone#9 is set as the base tone by default, from the Selection of the tones chart, Switch 3 is set at ON (down) position from the factory.

Tonartenschalter/ Selector –switch (Einstellung des Grundtones/ Adjusting the base tone)							External Tone Control		
							C1	C2	C1+C2
1	2	3	4	5	6	Grund-Ton No.(♪)	Tone No.	Tone No.	Tone No.
						1	2	88	57
ON						2 *	128	112	57
	ON					2	26	100	93
ON	ON					2	61	131	112
		ON				9	57	11	82
ON		ON				15	131	52	112
	ON	ON				16	109	52	56
ON	ON	ON				18	111	57	68
			ON			22	16	109	68
ON			ON			23	131	52	112
	ON		ON			24	131	52	131
ON	ON		ON			25	131	52	92
		ON	ON			26	2	100	93

- To access the switch, put the Netbell-KMB connector side facing you, open the lid of the Netbell-KMB server, you will see a line of ToneSetup switches marked from 1-6, please see the picture below for details.

2. Tone Selector Switch   1. Volume Control Switch

Volume Control Switch

There is a volume control switch on the board that you can change the volume if needed. To adjust the volume, use a small flat head screw driver, counter clockwise for volume up, clockwise for volume down. Note: To be EN54-3 compliant, the volume control has to be set to the maximum position.

Use the Tone on Schedule

- On the Netbell software, Bell 1 is to activate the basic tone, Bell 1+Bell 2 is to activate the C1 tone, Bell 1+Bell 3 is for activating the C2 tone, to activate the C1+C2 tone, check Bell 1+Bell 2+Bell 3, please see the example below.

- For instructions of accessing the Netbell Server and adding schedules to ring the bell, please follow the Netbell Setting Instructions.
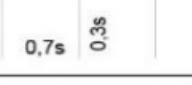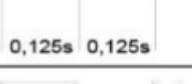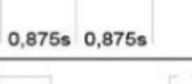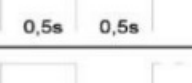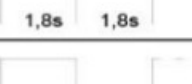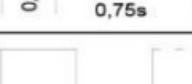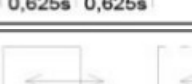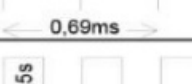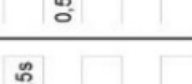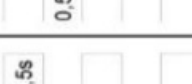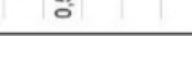
Appendix
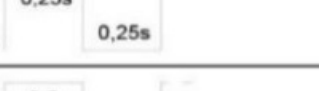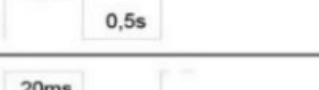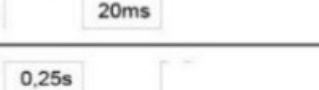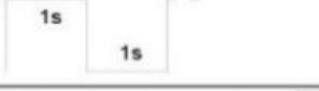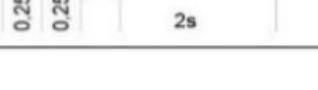
Tone table" and „Selection of the tones

Grund-Ton-Nr. (♪)	Beschreibung/ Description/ Descrizione		
1	Kein Ton/ Silence/ Pas de son/ Nessun suono		
2*	Saw tooth, Germany DIN 33404-3 (emergency signal), PFEER PTAP	1200Hz 1s 500Hz	EN54-3
9	Slow whoop, fire alarm, UK BS5839-1	970Hz 1s 800Hz	
11	Whoop (fast)	970Hz 20ms 800Hz	
13	Whoop	900Hz 0,3s 700Hz 0,6s	
15	Slow whoop, evacuation, Netherlands NEN 2575	1200Hz 3,5s 500Hz 0,5s	EN54-3
16	Slow whoop, evacuation Australia AS2220	1200Hz 3,75s 500Hz 0,25s	
18	Slow whoop, NFPA	775Hz 0,85s 422Hz 1s	
22	Whoop, Australia AS1670, ISO8201	1200Hz 0,5s 500Hz 0,5s 1,5s	
23	Siren	2400Hz 3s const. 500Hz	
24	Siren	1200Hz 3s const. 300Hz	

No.	Description	Signal
25	Siren	800Hz — 3s — const. / 300Hz
26	Industrial alarm (Germany)	1000Hz — 10s — 40s — 10s / 150Hz
27	Sweeping	2900Hz — 0,5s / 2400Hz — 0,5s
29	Sweeping (fast)	2900Hz — 10ms / 2400Hz — 10ms
30	Sweeping	2900Hz — 70ms / 2400Hz — 70ms
31	Sweeping, France NF C 48-265	1600Hz — 1s / 1400Hz — 0,5s
33	Sweeping, UK BS5839-1 (medium sweep)	1000Hz — 0,5s / 800Hz — 0,5s
34	Sweeping (fast)	1000Hz — 10ms / 800Hz — 10ms
35	Sweeping, UK BS5839-1 (fast sweep)	1000Hz — 70ms / 800Hz — 70ms
36	Sweeping	1500Hz — 1,5s / 700Hz — 1,5s
43	Sweeping	1200Hz — 1,5s / 500Hz — 1,5s
44	Sweeping, IMO 3d, Germany KTA3901 evacuation	1200Hz — 1s / 500Hz — 1s
45	Sweeping	1200Hz — 3s / 500Hz — 3s
46	Sweeping, Finland General Alarm	1500Hz — 7s / 500Hz — 7s
52	Continuous	2400Hz
53	Continuous	2000Hz

(♪)	Beschreibung/ Description/ Descrizione		
54	Continuous, Finland All Clear	1500Hz	
55	Continuous	1200Hz	
56	Continuous, PFEER (Gasa-larm)	1000Hz	
57	Continuous, UK BS5839-1	950Hz	
59	Continuous	880Hz	
60	Continuous	825Hz	EN54-3
61	Continuous	800Hz	
63	Continuous	725Hz	
65	Continuous, Sweden SS031711 (All Clear)	660Hz	
66	Continuous	554Hz	
67	Continuous, Germany KTA3901 (All Clear)	500Hz	
68	Continuous	470Hz	
69	Continuous	440Hz	
71	Continuous	340Hz	
77	Intermittent	2400Hz	0,5s 0,5s
82	Intermittent, PFEER (General Alarm), UK BS5839-1 (Back-up Alarm)	1000Hz	0,5s 0,5s
83	Intermittent, PFEER (General Alarm)	1000Hz	1s 1s
88	Intermittent	950Hz	1s 1s
90	Intermittent	825Hz	0,5s 0,5s

91	Intermittent	800Hz 0,25s 0,25s
92	Intermittent	800Hz 0,25s 1s
93	Intermittent (fast), electrome-chanical horn	800Hz 4ms 4ms
97	Intermittent	725Hz 0,7s 0,3s
98	Intermittent, Sweden SS 031711 (Imminent Danger)	700Hz 0,125s 0,125s
100	Intermittent, Industrial Alarm (Germany)	680Hz 0,875s 0,875s
101	Intermittent, Sweden SS031711 (Important Message (Pre Mess))	660Hz 6,5s 13s
102	Intermittent, Sweden SS031711 (Local Warning)	660Hz 0,5s 0,5s
103	Intermittent, Sweden SS031711 (Air Raid)	660Hz 1,8s 1,8s
104	Intermittent, Sweden SS031711 (Imminent Danger)	660Hz 150ms 150ms EN54-3
107	Intermittent, Germany KTA3901 (evacuation)	500Hz 0,25s 0,75s
109	Intermittent, Australia AS2220,AS1610, AS1670	420Hz 0,625s 0,625s
110	Intermittent (fast variable), Bell	1450Hz 0,69ms
111	Intermittent, ISO8201 (emergency evacuation signal), USA (evacuation)	470Hz 0,5s 0,5s 1,5s
112	Intermittent, ISO8201 (emergency evacuation signal)	950Hz 0,5s 0,5s 1,5s
113	Intermittent, ISO8201 (emergency evacuation signal) treble tone	2850Hz 0,5s 0,5s 1,5s

Grund-Ton-Nr. (♪)	Beschreibung/ Description/ Descrizione	
115	Intermittent, IMO (Telefon Call)	950Hz — 2s — 0,5s — 0,5s — 1s
116	Intermittent, IMO (abandon ship)	950Hz — 1s — 1s — 3s — 1s
117	Intermittent, IMO SOLAS III/50 + SOLAS III/6.4 (General Alarm)	825Hz — 2,5s — 2,5s — 7s
122	Alternating	2900Hz / 2400Hz — 0,5s — 0,5s
123	Alternating	2900Hz / 2400Hz — 0,25s — 0,25s
124	Alternating, Singapore	2000Hz / 1000Hz — 0,5s — 0,5s
125	Alternating	1400Hz / 1200Hz — 20ms — 20ms
128	Alternating	1025Hz / 825Hz — 0,25s — 0,25s
130	Alternating, UK BS5839-1 (Fire Alarm)	1000Hz / 800Hz — 0,5s — 0,5s
131	Alternating, UK BS5839-1 (Fire Alarm, Level crossing)	1000Hz / 800Hz — 0,25s — 0,25s — EN54-3
135	Alternating, UK BS5839-1 (Fire Alarm, increased urgency – Level crossing)	1000Hz / 800Hz — 0,125s — 0,125s
142	Alternating	900Hz / 500Hz — 0,25s — 0,25s
143	Alternating, Germany Industrial Alarm	660Hz / 440Hz — 0,125s — 0,125s
144	Alternating	650Hz / 440Hz — 1s — 1s
146	Alternating, France NFS 32-001 (fire alarm)	554Hz / 440Hz — 0,1s — 0,4s — EN54-3
147	Alternating, Sweden SS031711 (turn out)	554Hz / 440Hz — 1s — 1s
148	Alternating, Sweden SS031711 (turn out)	554Hz / 440Hz — 0,5s — 0,5s
152	Alternating-intermittent	800Hz / 650Hz — 0,25s — 0,25s — 2s

Selection of the tones

Tonartenschalter/ Selector –switch (Einstellung des Grundtones/ Adjusting the base tone)							External Tone Control		
1	2	3	4	5	6	Grund-Ton No.(♪)	C1 Tone No.	C2 Tone No.	C1+C2 Tone No.
						1	2	88	57
ON						2 *	128	112	57
	ON					2	26	100	93
ON	ON					2	61	131	112
		ON				9	57	11	82
ON		ON				15	131	52	112
	ON	ON				16	109	52	56
ON	ON	ON				18	111	57	68
			ON			22	16	109	68
ON			ON			23	131	52	112
	ON		ON			24	131	52	131
ON	ON		ON			25	131	52	92
		ON	ON			26	2	100	93

Tonartenschalter/ Selector –switch (Einstellung des Grundtones/ Adjusting the base tone)							External Tone Control		
1	2	3	4	5	6	Grund-Ton No. (♪)	C1 Tone No.	C2 Tone No.	C1+C2 Tone No.
ON		ON	ON			27	123	52	92
	ON	ON	ON			29	35	52	61
ON	ON	ON	ON			30	27	52	77
				ON		31	131	52	57
ON				ON		33	30	52	35
	ON			ON		34	35	52	93
ON	ON			ON		35	27	52	110
		ON		ON		36	146	67	57
ON		ON		ON		43	131	52	91
	ON	ON		ON		45	2	57	93
ON	ON	ON		ON		52 *	15	65	82
			ON	ON		54	46	54	131
ON			ON	ON		55	131	52	128
	ON		ON	ON		56	82	35	33
ON	ON		ON	ON		59	143	59	101
		ON	ON	ON		60	131	52	125
ON		ON	ON	ON		65	131	52	93
	ON	ON	ON	ON		66	110	52	107
ON	ON	ON	ON	ON		69	131	52	110
					ON	71	131	52	93
ON					ON	77	61	52	122
	ON				ON	82	131	52	83
ON	ON				ON	83	56	2	82
		ON			ON	88	2	57	128

ON		ON			ON	90	131	52	125
	ON	ON			ON	91	30	52	110
ON	ON	ON			ON	92	33	52	57
			ON		ON	93	2	128	57
ON			ON		ON	97	2	63	93
	ON		ON		ON	100	131	52	125
ON	ON		ON		ON	101	98	102	65
	ON	ON			ON	103	131	65	147
ON		ON	ON		ON	104	103	65	101
	ON	ON	ON		ON	109	16	52	22
ON	ON	ON	ON		ON	110	131	61	91
			ON		ON	112	2	57	128
ON			ON		ON	113	52	123	104
	ON		ON		ON	115	117	116	44
ON	ON		ON		ON	116	117	93	125
		ON	ON		ON	117	93	116	125
ON		ON	ON		ON	123	27	52	77
	ON	ON	ON		ON	124	53	83	2
ON	ON	ON			ON	130	2	107	67
			ON		ON	131	2	112	57
ON			ON		ON	135	16	56	109
	ON		ON		ON	142	2	54	88
ON	ON		ON		ON	143	59	93	33
		ON	ON		ON	144	110	61	2
ON		ON	ON		ON	146	31	67	57
	ON	ON	ON		ON	148	131	52	92
ON	ON	ON	ON	ON	ON	152	110	61	13

WEB: http://www.linortek.com/

Documents / Resources

[LINORTEK Netbell-KMB Packaging List and Instructions thumbnail]	[**LINORTEK Netbell-KMB Network All In One Extra Loud Multi Tone Buzzer Clock System**](#) [pdf] Instruction Manual Netbell-KMB Network All In One Extra Loud Multi Tone Buzzer Clock System, Netbell-KMB, Network All In One Extra Loud Multi Tone Buzzer Clock System, All In One Extra Loud Multi Tone Buzzer Clock System, Extra Loud Multi Tone Buzzer Clock System, Loud Multi Tone Buzzer Clock System, Multi Tone Buzzer Clock System, Buzzer Clock System, Clock System, System

References

- [**Linortek Remote IO, Audible & Visual Alarm Systems, and IoTMeter**](#)
- [**Linortek Remote IO, Audible & Visual Alarm Systems, and IoTMeter**](#)
- [**Netbell Standard Sound List**](#)
- [**User Manual**](#)