

Multispeech KIT

GJD090K Multispeech 4 Voice Enunciator 1A PSU
& Horn Speaker

DIREKTRONIK

Dataprodukter utöver det vanliga

PACKAGE CONTENTS

Package Contains:

- 1 x Multispeech 4 & 1A PSU in IP65 Housing
- 1 x Horn Speaker
- 1 x Installation manual

INTRODUCTION

The GJD090K Multispeech Kit is a complete, ready to go voice enunciator solution, featuring the Multispeech 4 module and a 1 Amp power supply housed in an IP65 rated box. Also includes an 8 Watt, 8 Ohm speaker.

MULTISPEECH 4

The Multispeech 4 is a four channel speech enunciator module designed for security, access control, welcoming, advising or warning. The module can be configured to accept any normally open or normally closed device, allowing a greater flexibility to use any detection device, alarm panel, panic button, telephone responder or activation from Remote Video CCTV Monitoring Station.

A separate 30 second message can be recorded on each of the four channels or, alternatively, one single message of 120 seconds long. Each of the four messages can be played back separately by triggering the corresponding input. Recordings can be made using the on-board microphone or alternatively by a 1V p-p input.

The Multispeech 4 provides an 8 Ohm audio output that can be applied to a loudspeaker (provided as part of the GJD090K Multispeech Kit) or to a dialler that has a speech processor input.

FUNCTIONS

Please refer to Figure 1.

Figure 1 key:

1. Four individual channel buttons.
2. Record button.
3. Program button.
4. Speaker output.
5. Four individual alarm inputs.
6. 12VDC Input.
7. Volume control ('+' = maximum).
8. Microphone.
9. Line in or on-board microphone selector.
10. External source "line in" phono socket (1V p-p maximum).
11. Status LED indicator.

PROGRAMMING

All factory set parameters can be changed to suit individual requirements. Any changes are stored in the non-volatile memory.

1. Press and hold the Program button on the module. Keep the button held for the duration of the programming process.
2. Press the desired Channel button for the number of the required option (i.e. press the Channel button twice for Pulse Count).
3. Wait four seconds until the indicator LED goes out.
4. The indicator LED will flash out the existing setting.
5. There is now a five second period during which you must enter the new setting. If no settings are altered during this period, the unit will return standby.
6. To change the selected setting, press the Channel button for the number of the new setting (i.e. press the Channel button three times for Pulse Count 3).
7. The indicator LED blinks twice and the changes are stored.
8. To exit programming mode at any time, release the Program button.

Example:

To link channel '1' recording to be followed by channel '2' recording:

- Press and hold the Program button on the Multispeech.
- Press the Channel '1' button five times for the 'Link' option.
- Wait until the red indicator LED goes out.
- The indicator LED will now flash out the existing setting for the channel (channel '1').
- Press the Channel '1' button twice for the 'Link 1 & 2' setting.
- Release the Program button to exit programming.

Table 1: Programming Chart

		SETTING						
		1	2	3	4	5	6	7
O P T I O N S	1	Input	N/O	N/C				
	2	Pulse Count	1	2	3			
	3	Pre-Noise	NO	SH	BNG			
	4	Mute Period	1	2	5	10	15	20 30
	5	Links	STD	1 & 2	1 - 3	1 - 4	120S	
	6	Links Hold	1	2	5	10	15	20 30
A U X	7	Press 7 times to flash out selected channel settings						
	8	Press 8 times to reset selected channel to factory settings						

Shaded settings are factory defaults

Input

All channels can be programmed to accept normally open or normally closed triggers.

Factory Default: Normally Open.

Pulse Count

The number of alarm triggers before playing the message.
Factory Default: Pulse Count 1.

Pre-Noise

NO – No message alert.
SH – Each channel can be set to have a preceding 'white noise' attention sound.
BNG – Each channel can be set to have a preceding two tone attention noise.
Factory Default: No message alert.

Mute Period (in seconds)

After the message has been activated, the mute period is the number of seconds to elapse after the message has finished before it can be triggered again if there are constant inputs.
Factory Default: 10 seconds.

Links & 120 Second Mode

STD – Each channel input will activate the corresponding message.
1 to 2 – Activation on input '1' only will trigger channel one message and will be followed by channel two message if constant triggering of input 1 (see Links Hold below).
1 to 3 – Same as above but with three separate messages.
1 to 4 – As above but with four separate messages.
120S – Select this mode when only one 120 second message is required. Use input '1' and channel '1' only.
Factory Default: STD.

Links Hold (in seconds)

Additional inputs have to be received within this time period to activate the next message.
Factory Default: 10 seconds.

RECORDING MESSAGES

To record an individual 30 second message:

1. Press and hold the RECORD button and keep the button held for the duration of the recording.
2. Press the Channel button for the desired channel.
3. The red indicator LED will light.

4. Record the message for that channel then release the RECORD button. The recording will stop when the button is released or when the 30 second time allowance elapses.
5. When recording is completed, the message is played back automatically.

These steps can be repeated to record over a previously stored message. There is no limitation on re-recording messages.

To record one 120 second message:

1. Ensure that the Link option for Channel '1' is set to '120 S'. If this is not set, please refer to the programming chart and instructions to configure this option.
2. This mode uses Channel '1' message and alarm input '1' only to activate.
3. Press and hold the RECORD button and keep the button held for the duration of the recording.
4. Press the Channel '1' button.
5. Record the message.
6. The recording will stop when the RECORD button is released or when the 120 second time allowance elapses.

To playback the recording of each channel:

1. Press and release the selected channel button.

To erase the 120 second recording:

2. Ensure any external 'line in' is disconnected.
3. Place the jumper link to 'line'
4. Press and hold the RECORD button and keep the button held for the duration of the process.
5. Press Channel '1' button.
6. Continue to hold the RECORD button for 120 seconds, or until the red indicator goes out.

SPECIFICATIONS

Recording Time	One single message of 120 seconds maximum or four individual messages of 30 seconds
Memory Type	EEPROM (non-volatile memory)
Channel Input Type	Four individual normally open or normally closed triggers
Audio Output	Maximum 8W @ 8 Ohms minimum (loudspeaker power handling minimum *W impedance, minimum 8Ohms)
External Audio Input	1V p-p maximum (jumper selectable)
Supply Voltage	9VDC to 15VDC
Current Consumption	Standby 9mA - record 38mA peak 1 Amp max (playback into loudspeaker)
Pulse Count	1-3
Operating Temperature	-10 to +50 degrees centigrade

POWER SUPPLY MODULE

The GJD Power Supply Module is designed specifically for use with the Multispeech 4. The Power Supply Module provides a 12 VDC output from a 230 VAC input that enables the Multispeech 4 to be conveniently installed with easy access to a mains supply.

INSTALLATION

- The Power Supply Module requires a 230 VAC supply on the LIVE input and a neutral on the N connection.
- An EARTH connection is also provided for the termination of the earth conductor. Ensure this connection is securely made.
- Connect the positive and negative terminals of the 12 VDC output to the corresponding inputs of the Multispeech 4.

IMPORTANT SAFETY REQUIREMENTS

- The Power Supply Module **MUST** be installed and maintained by suitably qualified engineers and the installation **MUST** comply with all relevant code of practice and regulations.
- All mains supplies to the module **MUST** be via a Residual Current Device (RDC) and an overload protection device.
- All mains supplies to the module **MUST** be disconnected before removing the cover.

SPECIFICATIONS

Mains supply Input	230 VAC, 50 Hz
12 VDC Output	12 VDC, 1A
5 VDC Output	5 VDC, 0.1A
Operating Temperature	-10 to +50 degrees centigrade

HORN SPEAKER

The horn speaker is specially designed for use with amplifiers with an output impedance of 8 Ohms or less. Due to the humidity-protected ABS housing the speaker is also suitable for outside applications provided that it is protected against dripping water, splash water, and precipitation.

INSTALLATION

- The Horn Speaker can be mounted on a flat surface by tightly screwing through the holes on the base plate.
- For horn alignment, loosen the fixing nut on the mounting plate and adjust the horn to the required position. Re-tighten the nut once the desired position is achieved.
- Ensure that there is no power to the Multispeech 4, then connect the speaker to the amplifier output ensuring correct polarity.

Important Notes

- When using multiple speakers, ensure that the polarity of each speaker is the same and also that the output impedance of the amplifier will not fall below the admissible value.
- When cleaning the horn speaker, use a soft cloth (dry or slightly damp). Never use aggressive detergents or chemicals as they may harm the unit.

- If the speaker is to be put out of operation permanently, take it to a local recycling centre which is not harmful to the environment for disposal.

SPECIFICATIONS


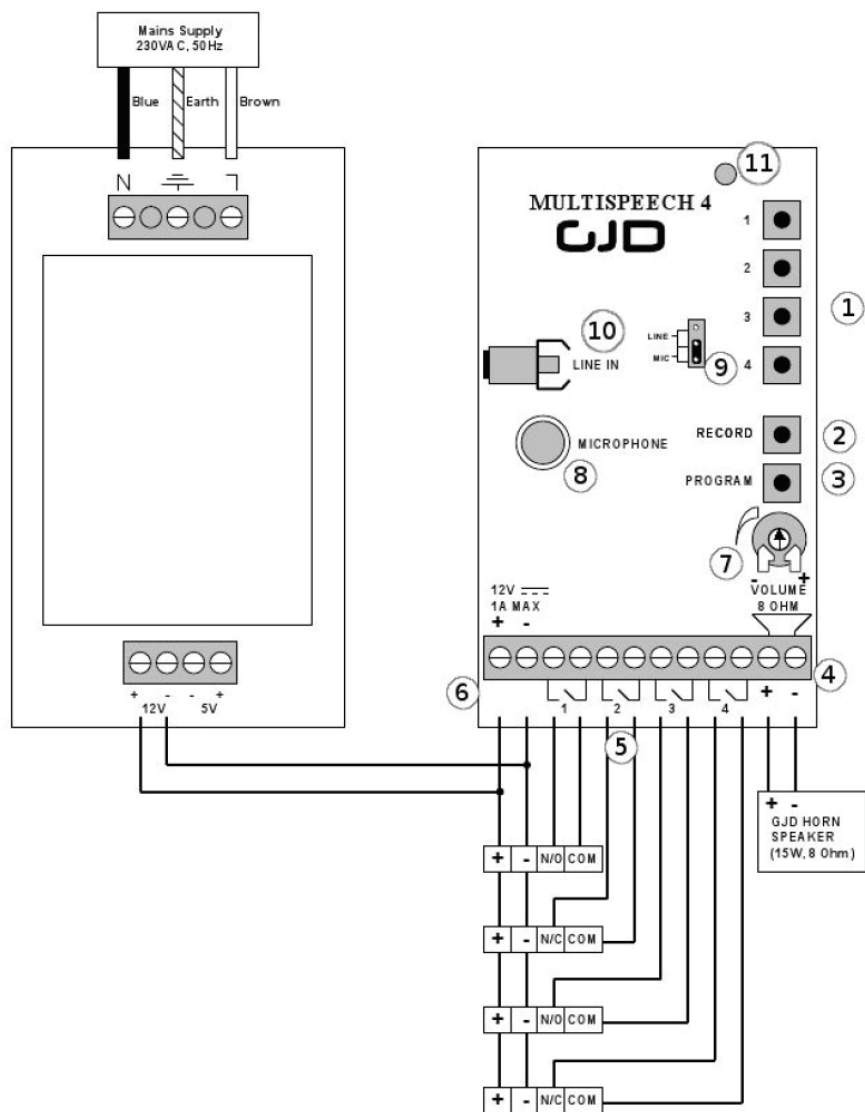
Power Rating	15 W Max, 8 Ohm
Frequency Range	600 -7000 Hz
SPL (1 W/1 M)	104 dB
Dimensions	135mm x 135mm x 165mm
Weight	380g
Mounting	Mount surface on a secure flat surface
Certifications	

FIG 1.



ENGINEER NOTES