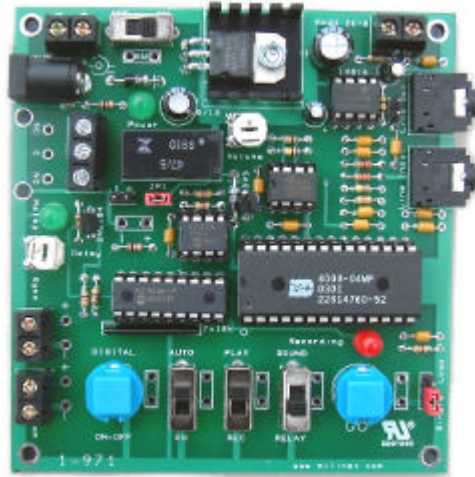


Wizard 8 (#1-971)



The Wizard 8 board provides a single channel, digital output combined with a 4 minutes duration sound chip.

- 1 Digital channel- either 0/4V @ 10mA outputs or changeover relay rated 30V @ 2A .
- 240 seconds high quality sound chip- digital recording from the line input (ie from a sound card and .wav files).
- Potentiometer to adjust the time delay between loops in loop-play.
- Digital ON-OFF and GO buttons
- AUTO-PLAY, PLAY-RECORD and SOUND-RELAY switches
- Sync output for multi-card operation
- REMote start option- for interfacing to pressure pads/PIRs etc
- Loop play facility

Controls

Delay Potentiometer

Sets the time delay between loops in loop-play- adjustable to between 0 and 65 seconds when looping play selected (see REM input section).

Digital Button

Pressing the ON-OFF key will action the digital channel output- action is momentary.

GO-Button

Press to start either Playback or Record functions.
If pressed whilst already recording then stops recording

RECORD-PLAY switch

Selects either Playback or Record mode.

AUTO-Play-switch

If switched to 'Y' then the moves will be replayed automatically on power-on or Reset.

Sync Output

The Sync output enables multiple cards to be linked together. The card produces a negative going pulse of duration 50msecs every time a record or playback session is selected. This pulse can be used to trigger additional cards by connecting the SYNC output to the REM terminal of other cards.

REMOte Input

Connection point for external pressure pad/switch/PIR etc to begin the playback action. Input normally High, ground to initiate playback.

Looping Play: Connect a wire across the REM terminals

Maximum Recording time

The maximum recording time is 4 minutes for the sound chip and 5 minutes for the servo and digital actions.

Audio

Inputs

Up to 4 minutes of audio may be stored in the on-board chip. The source for this is the line level signal via the line-input socket. Input sensitivity: 320mV P-P for maximum recording volume

Outputs

The output from the on-board chip is amplified and presented at the 2-way terminal block to allow connection of a small speaker (impedance 4-32 ohms, 1Watt).

The output may be amplified by an external amplifier if required by connection to the line-output socket. The on-board amplifier is automatically disconnected when a plug is inserted into the line-out socket. The line-output is approximately 2V P-P at maximum recorded volume.

Digital Outputs

Pressing the Digital button will set the digital channel High.

Jumper JP1 nearest the relay block may be used to enable/disable the relay.

With the jumper in place, the output will control the on-board relay. This is a change over relay rated at 30V @2A. The switch contacts are brought to the 3-way terminal block by the relay.

With the jumper removed, the relay is not activated and the output (0/4V at up to 10mA) may be taken from the 2-way jumper pins marked +/- by the side of the LED.

Power Supply

The **Wizard 8** will work with power supplies between 9 and 12 v DC the connection is a 2.1mm socket, centre positive.

Recording

An audio track-

Set the Play-Record switch to Record

Set the Sound-Relay switch to Sound

Ensure AutoPlay is OFF

Connect a suitable audio source to the Line-In Socket

Start the Audio

Press and release the Go button- the recording led will light

Press GO to terminate the recording.

The digital output will respond to the Digital ON-OFF button during recording

The Digital Output:

Set the Play-Record switch to Record

Set the Sound-Relay switch to Relay

Ensure AutoPlay is OFF

Press and release the GO button- the recording led will light and any previously recorded sound will start to play.

Press the Digital Button as required- these actions will be recorded.

Press GO to terminate the recording session.

PlayBack

Set the Play-Record switch to Play

Ensure AutoPlay is OFF

Press and release the GO button to start playback

Playback will continue until the end of the recorded Digital moves. It is not governed by the length of the audio track.

To engage Loop-play, short out the REM terminals- the time between consecutive playbacks will be determined by the Delay potentiometer.

Erasing

The stored Digital moves may be erased by setting the Play-Record switch to Record and holding down the GO button at power on. Erasing takes approximately 20 seconds. End of erasing may be tested by pressing the Digital ON-OFF button- the relay will respond when erasing is completed.

The audio recording cannot be bulk erased- it must be replaced with either a new track or by recording a very short blank session.

Note: The sound chip will not play unless there is a stored digital recording – so, if you erase the digital recording then the sound chip will not play until you have re-recorded a digital sequence.