CRANE KEEPER
Custom Overhead Crane Alarm Systems
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CK-8

Voice & Siren Module

SPECIFICATIONS:

- Operating Voltage: 11 to 14 Volts D.C.
- Adjustable current draw: 1/4 to 1.8 Amps.
- Low current triggers: 9 to 14 Volts DC @ 30 mA.
- Maximum sound level: 122 dB @ 1 meter.
- Maximum speaker loading: 4 Ohms.

FEATURES:

- Four Channels configurable as either:
  - -- Voice message or
  - -- Industrial alarm channels.
- Maximum record time is 8 minutes divided between the number of voice channels.
- Recordings stored in non-volatile memory.
- Voice channels accept momentary triggers.
- "*One Shot*" or Continuous voice playback settings.
- Adjustable speaker volume and current draw.
- Powerful 24 watt audio amplifier for Speakers.
- Line Level Output for Paging Systems and Amplifiers

ENVIRONMENTAL:

- 0° to 140°F, 0 to 95% RH non-condensing.

CRANE KEEPER CK-8 VOICE AND SIREN MODULE

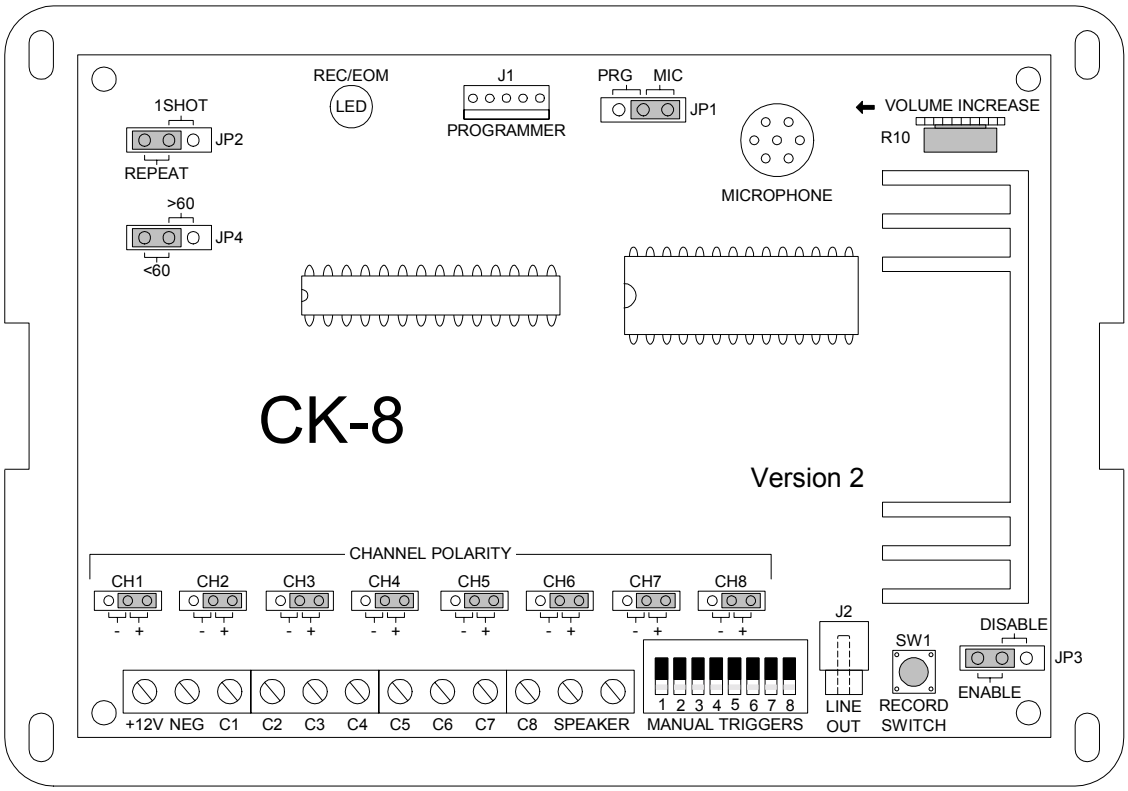

Figure 1

Summary of Connection Terminals & Switches

[**+12V**] If using a constant 12 Volt DC power source, connect the positive side here. Nominal operating range of the CK-8 is 11 to 14 Volts DC. This input is only required if: A. Negative Triggering is used. B. Momentary activation of the channels is desired. C. The activating source equipment is current limited to 30 mA or less.

[**NEG**] Connect to the negative side of the 12 Volt DC power source. Also connect the negative from external trigger inputs here if they are from another power source.

[**C1**] Positive or Negative trigger input for Voice channel 1

[**C2**] Positive or Negative trigger input for Voice channel 2

[**C3**] Positive or Negative trigger input for Voice channel 3

[**C4**] Positive or Negative trigger input for Voice channel 4

[**C5**] Positive or Negative trigger input for Voice channel 5

[**C6**] Positive or Negative trigger input for Voice channel 6

[**C7**] Positive or Negative trigger input for Voice channel 7

[**C8**] Positive or Negative trigger input for Voice channel 8

[**SPEAKER**] Connect to 8 ohm speaker. (Max 4 Ohm load)

[**Volume Control** (R10)] Adjusts volume of the speaker output.

[**Manual Triggers**] Selects channel to be recorded. Power must be applied to the +12V and NEG terminals to use this switch.

[**Record Switch** (SW1)] To record a message, set JP1 to MIC, activate desired channel, press SW1, then speak your message into the on-board microphone.

[**Programmer**(J1)] Computer Sound Card
Interface module connects to this 5 pin connector to allow computer WAV sound files to be downloaded into the CK-8.

Jumper Settings

JP1	MIC	Record using the on-board microphone
	PRG	Record using the sound interface
JP2	REPEAT	Continuously replays a channel while triggered
	1SHOT	Plays a triggered channel only once.
JP3	ENABLE	Enables the on-board record switch SW1
	DISABLE	Disables record switch, prevents accidental recordings
JP4	<60	Message recordings **cannot** overflow into next channel
	>60	Message recordings **can** overflow into next channel
CH1 thru CH8 Jumpers		Selects either a positive or negative input trigger source for each channel

Message Lengths

Each message location is 1 minute in length, However, messages can be recorded over into adjacent locations to allow for longer than 1 minute messages. If message recordings exceed 1 minute they will overwrite the next adjacent message, thus adjacent message locations become unusable. Total message space is 8 minutes in length.

C1 = Up to 8 Minute Recordable Voice 1 Message
C2 = Up to 7 Minute Recordable Voice 2 Message
C3 = Up to 6 Minute Recordable Voice 3 Message
C4 = Up to 5 Minute Recordable Voice 4 Message
C5 = Up to 4 Minute Recordable Voice 5 Message
C6 = Up to 3 Minute Recordable Voice 6 Message
C7 = Up to 2 Minute Recordable Voice 7 Message
C8 = Up to 1 Minute Recordable Voice 8 Message