



Architects and Engineers Specification

- The voice alarm dialer shall be a standalone, fully programmable unit capable of monitoring two independent dry contact inputs. The unit shall be the Viking Electronics Model K-202-DVA. Each input channel shall be independently configurable as Normally Open (N.O.) or Normally Closed (N.C.) and shall support a user-adjustable qualifier timer to mitigate false alarms. Upon input qualification, the system shall systematically dial up to seven (7) unique, 32-digit telephone numbers per input (totaling 14 distinct destinations) over an analog Central Office (C.O.) line or PABX/KSU station.
- The system shall feature integrated non-volatile E2 memory, ensuring full data retention of all parameters, phone configurations, and voice recordings without the deployment of backup batteries. The unit shall provide up to two (2) minutes of total digital voice recording time, segmented evenly at one (1) minute per input channel. The dialer must incorporate intelligent call progress detection circuits capable of recognizing normal busy, fast busy, ring-no-answer, central office line connection pickup, and Calling Party Control (CPC) signals. Programming and voice tracking must be accessible via any standard local or remote Dual-Tone Multi-Frequency (DTMF) Touch-Tone telephone interface. The physical enclosure shall be constructed of durable composite materials powered by a UL-listed 12V DC plug-in adapter.

K-202-DVA

The Viking Electronics K-202-DVA is a fully programmable, dual-input, multi-number voice alarm auto dialer engineered for emergency and non-emergency automated message notification. Upon activation of its dry contact inputs, the system initiates an automated dialing sequence over standard analog telephone lines, broadcasting user-recorded voice messages or transmitting distinct numeric alerts to pagers. The device functions as a standalone notification utility designed to interface seamlessly with security, environmental, and industrial automation monitoring hardware.

System Components

- **K-202-DVA Main Dialer Assembly:** Central solid-state processing and storage module.
- **Power Supply Module:** 120V AC to 12V DC 500mA UL-listed wall transformer.
- **Input/Output Terminal Interconnects:** * One (1) standard RJ11 jack for physical TELCO Central Office / PABX station loop.
 - One (1) 4-position captive screw terminal block for Input 1, Input 2, Common Ground, and Earth Ground interfacing.
- **Onboard Manual Controls:** * NORM / PROG Toggle Switch for selecting operational or setup/programming configuration modes.
 - Rotary Volume Potentiometer for custom audio gain/output levels.
 - Onboard LED status indicator for real-time diagnostic reporting of local alarm states.

Product Specifications

- **Primary Input Power:** 120V AC to 12V DC, 500mA UL-listed adapter (included)
- **Talk Battery Output:** 12V DC nominal
- **Dimensions:** 5.25" x 3.6" x 1.75" (133mm x 91mm x 44mm)
- **Shipping Weight:** 1.5 lbs (0.68 kg)
- **Operating Temperature Range:** 32°F to 90°F (0°C to 32°C)
- **Environmental Humidity Limit:** 5% to 95% relative humidity, non-condensing
- **Total Voice Storage Capacity:** 2.0 Minutes maximum (1.0 Minute allotted per channel)
- **Audio Digital Sampling Rate:** 64K equivalent high-fidelity fidelity
- **DTMF Dialing Speeds:** Normal Mode: 100ms on/off | Fast Mode: 50ms on/off
- **Minimum CPC Detection Interval:** 320ms
- **Base Input Detection Speed:** 80ms to 90ms (with Qualifier Timer parameter baseline at 0)
- **Qualifier / Resume Timer Resolution:** Adjustable from 1 second up to 18 hours
- **Telco Line Connection Interface:** Single (1) RJ11 modular jack port
- **Sensor Connection Interface:** 4-position integrated terminal screw strip

Features & Benefits

- **Battery-Free Operational Memory:** Outfitted with non-volatile E2 memory to protect recorded messages and programmed directories during complete power blackouts.
- **Dual-Channel Versatility:** Processes two separate dry contact triggers to relay context-specific emergency protocols over the same physical utility infrastructure.
- **Precision Filtering Diagnostics:** Advanced call progress loop detection analyzes busy responses, dropouts, or unanswered rings to auto-advance through the call roster.
- **Custom Alarm Verification:** Features adjustable Qualifier and Resume timers per input channel to properly filter out ambient equipment fluctuations and momentary sensor trips.
- **Dual-Format Delivery:** Compatible with conventional spoken voice responses or direct output to numeric pager configurations.
- **Secure Remote Administration:** Integrates administrative protection pins alongside multi-level remote access capabilities for over-the-phone parameter tweaking and recording.

Compliance and Certification

- **FCC Status:** Compliant with FCC Part 15 (Class A Digital Device guidelines for industrial and commercial environments) and FCC Part 68 communication equipment standard requirements.
- **UL Status:** Package includes a dedicated, officially certified UL-listed 120V AC power conversion adapter.
- **RoHS Status:** Manufactured utilizing certified lead-free processes and materials in alignment with international RoHS safety and restriction guidelines.