



#### 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

##### Auto Voice Dialer Two Input Voice Alarm Dialer

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.

#### 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
- **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.

#### 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.

#### 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.