



RACO Mfg. and Eng. Co. • 1400 62nd St., Emeryville, CA 94608 • (510) 658-6713 • 800-722-6999 • FAX (510) 658-3153 • www.racoman.com

DIALER SPECIFICATION – CHATTERBOX[®] MODEL CB-4

1. Description and Phone Number Dialing:
The dialer shall be a solid state component capable of dialing from one to eight phone numbers, each up to 16 digits in length. Phone numbers are to be entered via the system's keyboard. Standard pulse dialing or Touch Tone[®] DTMF dialing shall be selected at the keyboard.
2. Additional Field Programming Capabilities:
The user may optionally elect to alter the following parameters from their standard normal default values via keyboard entry. The built-in voice will guide and confirm the following programmable features.
 - A. User Programmable Speech: Alarm and normal messages for each channel shall be programmable from a standard 230 word vocabulary.
 - B. Remote Programming: The dialer shall permit user to change any user - entered programming (except speech messages) from any Touch Tone phone. User shall also be able to cause a ninth phone number to be called on command to test system and phone line integrity.
 - C. Alarm response delay: .1–999.9 seconds.
 - D. Delay between alarm call-outs: .1–99.9 minutes.
 - E. Alarm reset time: Programmable 0.1–99 hours or "NO RESET".
 - F. Incoming ring response (answer) delay: 1–20 rings.
 - G. Number of message repetitions: Programmable 1–20 repetitions of the message.
 - H. Station ID number.
 - I. Input alarm criteria: Each channel shall be independently configured for "Alarm On Open Circuit," "Alarm On Closed Circuit," or "No Alarm" - report on inquiry only, or in lieu of alarming, accumulate equipment running time.
 - J. Autocall Test: When enabled, the unit shall place a single round of test calls, both at the time this function is enabled and also at regular subsequent intervals until this function is disabled at the keyboard. The voice shall identify these calls as test calls.
 - K. Run Time Meter: Each channel shall be keyboard programmable to accumulate and report the number of hours that its input contacts have been closed.

3. Nonvolatile Program Memory Retention:
User-entered programming shall be kept intact even when all power is removed for up to 10 years.
4. Acknowledgement:
Acknowledgement of an alarm phone call is to be accomplished by pressing a Touch Tone "9" as the alarm call is being received, and / or by returning a phone call to the unit after receiving an alarm call, at the user's choice.
5. Synthesized Voice:
The Automatic Telephone Dialer is to communicate via a highly intelligible solid state voice synthesizer (magnetic tape loops will not be used) with an identification of its location and the specific existing alarm condition(s).
6. Input Monitoring Function:
The unit shall continuously monitor the presence of AC power and the status of four contact closure inputs. AC power failure, or violation of the alarm criteria at any input, shall cause the unit to go into alarm status and begin dial-outs.
7. Alarm Message:
Upon initiating an alarm phone call, the system is to "speak" only those channels that are currently in "alarm status."
8. Inquiry Message and Function:
Inquiry phone calls can be made directly to the unit at any time from any telephone, locally or long distance, for a complete status report of all variables being monitored, including power status. Further, by pressing the Touch Tone "0," the user may hear all user-entered programming and diagnostic counts (Cumulative Counts of Call In Count, Dial-out Count, Acknowledged Alarm Count, Power Off Alarm Count). All this information shall be available by keyboard inquiry at the unit as well.
9. Power Battery Backup:
Normal power shall be 105–135 VAC, 15 watts maximum. The product is to contain its own gel cell rechargeable battery, which is automatically kept charged when AC power is present. The battery is to be capable of keeping the product operating, and user programming intact, for a minimum of six continuous hours in the event of power failure. Shorter backup time shall not be acceptable. The built-in charger shall be precision voltage controlled, not a "trickle charger," to minimize recharge time and maximize battery life available.
10. Phone Line:
The dialer is to operate on a standard rotary pulse or Touch Tone "dial-up" phone line (direct leased line not to be required) and is to be F.C.C. approved. A regular private line is to be provided. Connection to the telephone is through an industry standard four-pin modular jack (RJ-11).
11. Integral Surge Protection:
Gas tube and solid state surge protection is to be provided on all inputs, including power, phone, and signal lines. These protectors are to be integrally incorporated into the main circuit board for maximum protection. Protectors mounted external to the main circuit board shall not be an acceptable substitute. The installer shall

provide a good electrical ground connection point near the unit to maximize the effectiveness of the surge protection.

12. Technical / Customer Support:

All users shall be provided and / or shall have access to the following support resources.

- A. Each autodialer shall be shipped with a CD_ROM which details all features of the product and provides an in-depth step-by-step video programming guide. A superficial marketing overview will not be acceptable.
- B. Free Live Chat support on RACO's website staffed with trained technicians shall be available during manufacturer's normal working day.
- C. Free comprehensive web-based support center with over 550 FAQs shall be available for customers to retrieve copies of all available technical information directly into his own computer. The support center shall have an optimized user interface for smartphones at <http://www.racomobilesupport.com>, allowing users to quickly navigate to the desired support topics. This service shall be available on a 24 hour basis.
- D. A toll free 800 number shall be available during manufacturer's normal working day to permit users to talk directly with technical service personnel and resolve problems not solved by the RACO web-based Support Center.

13. Warranty:

The dialer shall be covered by a two (2) year warranty covering parts and labor performed at the factory.

14. Modular Upgrades:

The system shall include expansion connectors to accommodate field upgrades for additional dry contact inputs, remote supervisory control, remote reprogramming, analog input and communication with serial printers.

15. Additional Features: Sealed Switches, LED Indicators, Alarm Disable Warning, Talk-through:

All keyboard and front panel switches shall be sealed to prevent contamination. Front panel LEDs shall indicate: Normal Operation, Program Mode, Phone Call in Progress, Unacknowledged Alarm, Acknowledged Alarm, AC Power Present, AC Power Failure, and Low or Discharging or Recharging Battery. On any Inquiry telephone call or On-Site status check, the voice shall provide specific warning if no dial-out phone numbers are entered, if the alarm switch is in the "disable" position, or if AC power is off or has been off since last reset. A built-in microphone shall allow anyone at a remote phone to listen to local sounds and to have a two-way conversation with personnel at the dialer.

16. Special Order Items:

The following options shall be available on specific order:

- A. NEMA 4X (sealed) enclosure.
- B. 425 word user programmable speech (19.5 more than standard).
- C. 4, 8, 16 or 24 extra contact channels (8, 16, 24 or 32 respectively, total).
- D. 1 analog channel.
- E. 24 hour battery backup life (6 hours standard).

- F. Thermostatically controlled heater.
- G. Local data logger.
- H. Radio communications interface.
- I. Remote supervisory control (4 or 8 outputs).

Specifications subject to change without notice.

Literature code 102