

## RACO CENTRAL WATCHDOG SYSTEM AUTOMATICALLY VERIFIES PHONE LINE AND AUTODIALER OPERATION

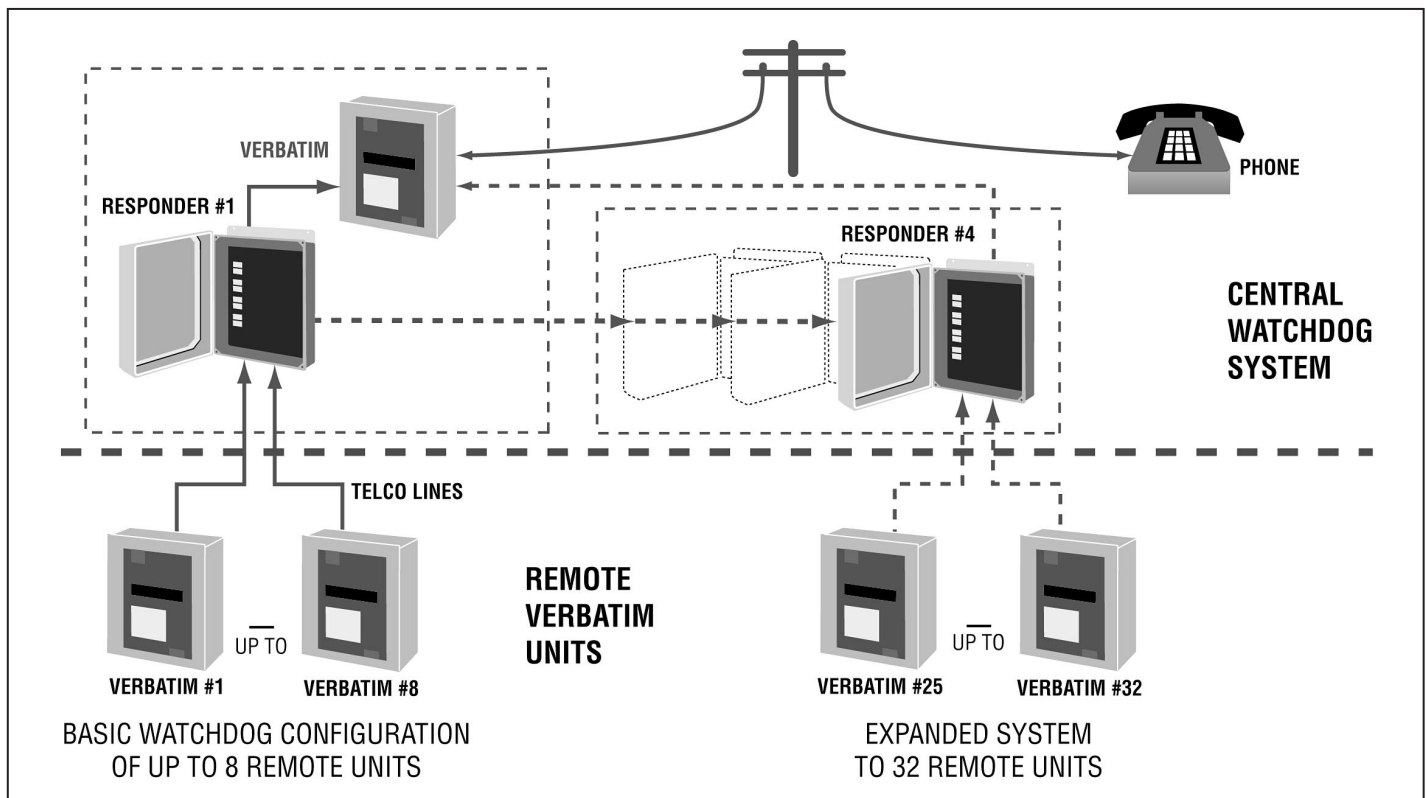


Interruptions in telephone service as a result of storms, fires, and other uncontrollable disasters can result in loss of critical alarm autodialing capability. To guard against such disruptions in telephone service, as well as a malfunction of the autodialer itself, the RACO Central Watchdog System provides automatic verification of proper system operation.

As shown in the accompanying diagram, a RACO Verbatim and up to four Responder units serve as a basic Central Watchdog System. To verify operation, each remote Verbatim unit calls into their respective Watchdog Responder, which in turn, provides a corresponding digital input to the Watchdog Verbatim. Each Responder can accommodate up to eight remote

Verbatim units, and a single Verbatim unit, with 32 digital inputs, can accommodate up to four Responders. Therefore the basic Watchdog system configuration can be easily expanded to handle up to 32 remote Verbatim units.

Reporting to the central Watchdog System is independent of the standard monitoring, reporting, and controlling functions programmed into each remote



*Each remote Verbatim places "reporting in" calls to the Central Watchdog System at regular preprogrammed intervals. The Watchdog acknowledges each call from the remote Verbatim units. If any remote Verbatim fails to report in, the Watchdog places alarm calls to supervisory personnel via outgoing phone line or Cellularm.*

Verbatim. All of the remote units are capable of performing a conventional autodialing sequence if an alarm condition occurs.

All units communicate with each other via the standard dial-up telephone networks. A RACO Cellularm system can be used with the Watchdog unit to provide either primary or back-up alarm autodialing via the cellular network in the event that telephone lines are not available or have been disabled.

Each remote Verbatim Autodialer places "reporting in" calls to the central Watchdog System at regular intervals. If a remote Verbatim fails to report in as programmed, the Central Watchdog System will start an alarm autodialing sequence to supervisory personnel, calling until it gets an answer. When a person on the phone list answers and acknowledges the call, the Central

Watchdog System identifies the site that has failed to report in.

The interval between "reporting in" calls is programmable by the operator. The call interval can be chosen to optimize the trade-off between the maximum length of time a remote system can be down before it is missed and the cost of phone calls. Manual verification can be done at any time. Supervisory personnel can call any Watchdog or remote Verbatim unit at any time from any touch-tone phone to check system status or change programming.

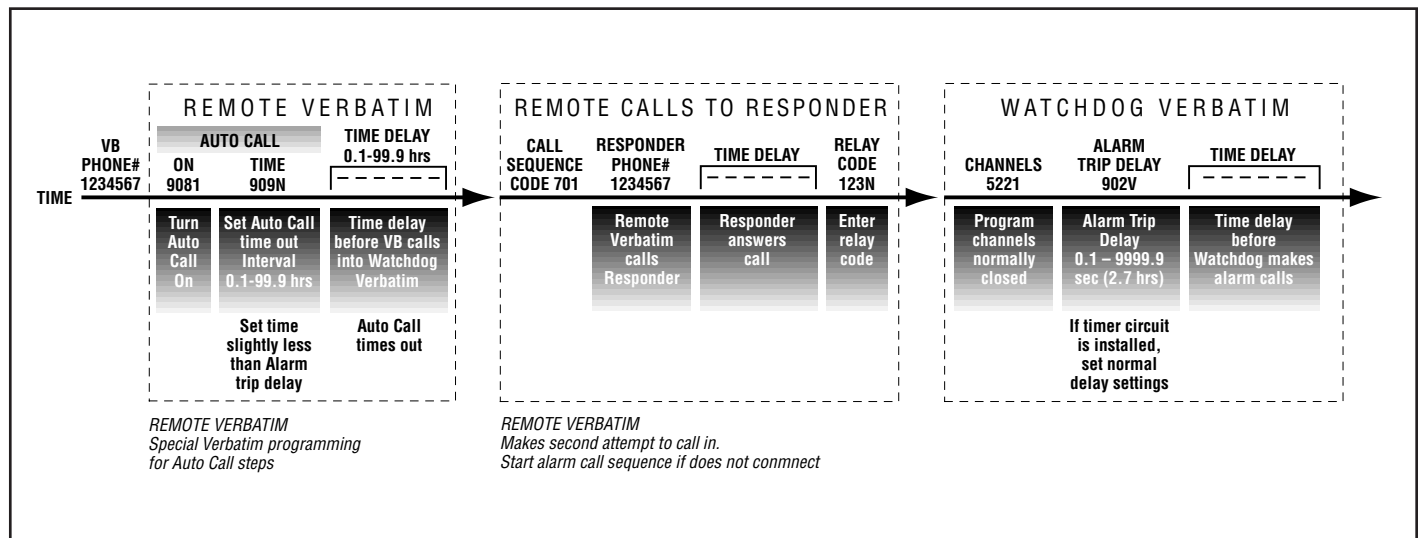
For maximum effectiveness, the Central Watchdog System should have an outgoing phone line separate from its incoming line. The outgoing line can be conventional landline, cellular, or both via automatic switcher. In the latter case, a RACO Cellularm can be used with the Watchdog system to make

alarm calls over the cellular network if the Watchdog's outgoing phone line is disabled.

In the event that the Watchdog line is busy, a remote Verbatim attempting to report in will automatically place a second call at a later time. If the Central Watchdog System itself is down, a remote Verbatim failing to report in will start an alarm calling sequence to supervisory personnel to notify them of the failure. If it is necessary to temporarily disarm or take a Verbatim off line, its corresponding input channel at the Central Watchdog System must be disabled to avoid erroneous alarm calls.

Contact us today for system applications information at...

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