# ARCHITECTURAL SPECIFICATIONS
# SAT EMT Self Identifying Telephone with relay control

**SAT EMT General Requirements:**

The SAT EMT is a telephone line powered device that connects to a telephone line or analog capable PBX. The SAT EMT dials a pre-programmed number and actuates a blue strobe light, when the **PUSH FOR HELP** button is pressed. It can dial up to 9 additional 16 digit phone numbers. After dialing, it permits two way voice communication without having to hold a handset (Hands Free). The amount of time that you can talk on the SAT EMT before it disconnects, is programmable from 1 to 99 minutes. The SAT EMT can identify itself by sending a 4 digit ID number as a series of Touch-Tones™.

SAT EMT **Phone Specifications:**
SAT EMT phone components shall be telephone line powered only (24 Volts @ 25 milliamperes, minimum required power) and not dependent on any external power source or battery.
SAT EMT shall have Call Progress for dialing phone numbers and for automatic hang-up.
SAT EMT shall detect these Call Progress tones:
Dial Tone
Busy
Fast Busy
Reorder
Off Hook Alert
Ring Back
Forced Disconnect

SAT EMT shall store up to 10 discrete 16 digit phone numbers. SAT EMT shall (depending on the programming), dial 2 numbers alternating back and forth 5 times, or ten different phone numbers one after the other. The combinations (up to 10) will depend on the programming, and can be easily changed.

SAT EMT shall have Touch-Tone™ detection for:
Remotely hanging up the SAT EMT.
Sending the 4 digit ID number on command.
Remote Programming.
Acknowledging Call (By lighting the flashing Talk LED).

SAT EMT shall have Ring Detect. to control how many rings the SAT EMT will receive before it answers.
SAT EMT shall have talk time from 1 to 99 minutes, in 1 minute increments, that a SAT EMT remains connected for talking, before it times out and hangs up.
SAT EMT shall have (if programmed to do so) a programmable acknowledge tone, that will light up the flashing TALK light, after the SAT EMT places a call and the Acknowledge Tone has been received.
SAT EMT shall have password control consisting of a 4 digit-programming password. This is used for remote programming from a Touch-Tone phone.
SAT EMT shall have ID Cycle Time that can automatically send it's 4 digit ID number in 10 second increments.
SAT EMT shall have ID Confirm that (when programmed to do so), will automatically dial the next number in it's memory, if the SAT EMT does not send it's 4 digit ID number. SAT EMT will keep doing this until it does send the ID number, or until it has dialed all the numbers (up to 10 total) programmed into the SAT EMT.
SAT EMT shall have Ring Down Count Retry when used in Ring Down mode, so that if the called phone does not answer, or the SAT EMT receives a dial tone or busy signal, will cause the SAT EMT to hang up and retry the call. This shall be programmable from 1 to 9 retries.
SAT EMT shall be able to detect short burst DTMF tones of less than 70 milliseconds in duration.
SAT EMT shall be capable of programming through external (optional) hand-held programmer containing numeric keypad and LCD display.
SAT EMT shall be A.D.A. compliant and provide LED indicators for "CALLING" and "TALK". Instructions in Braille are (optionally) available for the sight impaired.

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# ARCHITECTURAL SPECIFICATIONS
# SAT EMT Self Identifying Telephone with relay control (Continued)

**SAT EMT Relay Specifications:**

SAT EMT shall be powered with 16 volt ac transformer to DC power supply power to relay board, only.

SAT EMT shall have 2 relays with the following relay functions:

Relay 1 Timed.
When SAT EMT places a call, and receives a valid Touch-Tone™ number, the appropriate relay will energize for between 1 and 45 seconds. The SAT EMT will immediately hang up.

Relay 2 Active relay.
Energizes blue flashing strobe when SAT EMT goes off-hook, and stays energized for as long as SAT EMT is active (as controlled by talk-time).

Relay 1 Latched.
When SAT EMT is called and receives a valid Touch-Tone™ number preceded by a 0, it shall energize the relay for as long as the SAT EMT is off-hook, as determined by the Talk-time setting programmed into SAT EMT. This shall allow conversation to continue after the relay is latched.

Relay 1 Hold Energized Enable.
When a jumper is installed on the relay module, whenever SAT EMT receives an actuation in any mode, the relay shall remain energized until an external contact closure (Reset) occurs.

**SAT EMT Strobe and Power Specifications:**

The unit shall have a combination lighting unit consisting of both a strobe and a beacon.
The strobe light shall generate approximately 1,000,000 candlepower.
The flash rate shall be one no less than one flash per second.
The unit shall require 16 VAC from the supplied transformer and draw an average of 1.2 amperes under normal operation using the supplied DC power supply.
The entire unit shall be surge protected.
The strobe shall be automatically activated when the "PUSH FOR HELP" button on the front panel is pushed, and shall flash until the receiving party deactivates the unit, or until a pre-programmed time amount is exceeded.

**SAT EMT Tower Specifications:**

The housing front shall be fabricated from 12-gauge, stainless steel and shall be 32 inches high, 12 inches wide, and 8 inches deep.
There shall be a front mounted poly-carbonate lens, housing a strobe in front of a reflective metal surface.
The polycarbonate lens shall be sealed against the elements.

All specifications are subject to change without prior notice, at any time.

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