

# Code Blue®

## CB 8 PRODUCT SPECIFICATION

### 1.0 GENERAL DESCRIPTION

- 1.1 The unit (Code Blue CB 8) shall be an easily identifiable, vandal resistant communications device that is Americans with Disabilities Act (ADA) compliant, multi-functional, either pole or wall mounted, and constructed of heavy steel. The unit shall be aesthetically pleasing and virtually impervious to damage, and shall include a high quality, vandal resistant, hands-free communications device, and an optional remotely mounted combination blue strobe and beacon that serve to identify the unit from a great distance.
- 1.2 The communication system (Code Blue CB3100) shall be designed so that a single touch on the communications device button shall immediately and automatically dial a preprogrammed number. This shall simultaneously activate an optional combination blue beacon and strobe, flashing at no less than 60 times per minute, and an optional peripheral device such as a remote preset for closed circuit television (CCTV). Immediately after establishing the phone connection with the receiving party, the communications device shall be capable of sending a signal identifying the specific unit being activated. The strobe shall continue to flash, drawing attention to this location until the receiving party terminates the call.

### 2.0 CONSTRUCTION

- 2.1 The housing shall be fabricated of 11 gauge steel. The unit shall be 14 inches wide, 25.75 inches high, 12.75 inches deep at the top, and 9 inches deep at the bottom. The top of the housing shall have a 33 inch radius. The bottom shall have an opening for the passage of a phone line and electrical wires. There shall be a back plate fabricated of 11 gauge steel with four holes for the accommodation of mounting hardware. The front of the unit shall have a removable access door that is 7.50 inches high by 12.25 inches wide.
- 2.2 Tamper resistant fasteners manufactured by the McGard Company shall be used. It shall not be possible to enter the unit or remove any component without a special computer designed bit-wrench designed for this purpose. These bit-wrenches are supplied only by the manufacturer of the unit. All other types of fasteners shall not be acceptable due to the abundance of non-proprietary tools available for their removal.

### 3.0 MOUNTING

The unit shall attach to the wall with four each 3/8 inch by 3 inch masonry type anchors that are included with the unit. See section 9 of this specification for optional pole mounting information.

### 4.0 ELECTRICAL

- 4.1 All electrical components shall have quick-disconnect terminals for easy service or removal. All wiring shall be concealed within the enclosure and shall not be visible from the outside of the unit.
- 4.2 The unit shall require 24 VAC and draw a maximum of 2.5 amperes under normal operation. The entire unit shall be surge protected.
- 4.3 The speakerphone shall require 20 mA loop current at the unit. A 22 to 26 AWG shielded twisted pair cable shall be used. Longer cable runs shall require the heavier gauge cable.

- Three number dialing capability up to 16 digits per button

## 5.0

### LIGHTS

- Remotely programmable.
- Remote electronics mounting (extendable to 5' faceplate height) and LED light fixture shall be concealed within the unit above and directed forward of the communications device. This fixture directs light onto the communications device faceplate, and shall be vandal resistant.
- Three reporting inputs (six one input has optional activation).
- Two output relays (optional aux 2 salvable to aux 1).

## 6:0

### COMMUNICATIONS

- Remote volume adjustment.
- Silent monitoring mode, password protected.
- Remote control two step microphone sensitivity adjustment.
- Programmable passwords.
- Programmable conversation time.
- Allows the speakerphone to be Code Blue CB3100 and have one 1.5 inch piezoelectric button labeled "PUSH FOR HELP," one 3/8 inch diameter red light emitting diode (LED) labeled "Call Placed" and one 3/8 inch diameter green LED labeled "Call Received." The speakerphone shall have an internally mounted electronics enclosure, automated system, and shall be capable of playing up to two digitally stored voice files.
- Detects inaudible commands for the phone system to allow for a single-button faceplate, a two-button faceplate, or a two-button faceplate with keypad. The speakerphone shall be programmable from a remote location and have a three number dialing capability per button. Battery backup shall be rated for 16 hours of active talk time and 32 hours of standby. Line powered phone devices, DIP switch programming, and push-to-talk devices are not acceptable.
- Internal watchdog detect and restart the micro controller after a lock up.
- Supports the RPD diagnostic routine that tests the integrity of the microphone and speaker when used with the FP series faceplates.

<ul style="list-style-type: none"> <li>• Three number dialing capability up to 16 digits per button.</li> <li>• Remotely programmable.</li> <li>• Remote electronics mounting (extendable up to 5' with optional 3' ribbon extension).</li> <li>• Three reporting inputs (aux one input has optional activation).</li> <li>• Two output relays (optional aux 2 salvable to aux 1).</li> <li>• Remote control speaker volume adjustment.</li> <li>• Silent monitoring mode, password protected.</li> <li>• Remote control two step microphone sensitivity adjustment.</li> <li>• Programmable passwords.</li> <li>• Programmable conversation time.</li> <li>• Allows the black button on a keypad phone to act simply as a hook switch or as a speed dial button before allowing keypad use (for auto dialing into automated systems).</li> <li>• Detects inaudible hang-up commands from the phone system to allow the CB3100 to detect more accurately when the operator has disconnected from the call.</li> <li>• Allows for the lockout of "during call commands."</li> <li>• Internal watchdog timer to detect and restart the micro controller after a lock up.</li> <li>• Supports the RPD diagnostic routine that tests the integrity of the microphone and speaker when used with the FP series faceplates.</li> <li>• RS485 data jack to allow a RS485 device to activate the phone.</li> </ul>	<ul style="list-style-type: none"> <li>• Programming option to set the number of times voice message(s) are played.</li> <li>• Capable of using interchangeable faceplates-single button, dual button and dual button with keypad.</li> <li>• Re-playable message(s) on demand.</li> <li>• Output sound level &gt;80 dB at 1 meter for normal conversation.</li> <li>• Waterproof 3.5-inch speaker.</li> <li>• Waterproof microphone.</li> <li>• Operating temperatures of -40°F to +150°F (-40° to +65°C).</li> <li>• Conformal coated speakerphone electronics to withstand harsh environments.</li> <li>• Capable of playing messages simultaneously at the unit and to the call center.</li> <li>• EEPROM Memory ensures that programming is retained during power loss.</li> <li>• Capable of notification when AC power has been off for 15 minutes.</li> <li>• Auxiliary power supply, battery back up – 16 hours active talk time, 32 hours standby time.</li> <li>• Highly flexible two stored voice identifiers – includes four modes of operation.</li> <li>• Easily integrate with CCTV, alarm systems and other security equipment.</li> <li>• Compatible with 4+1 Express and 4+2 Express Formats.</li> <li>• Optional AMPS cellular transceiver.</li> <li>• Optional 2.4 GHz transceiver.</li> <li>• Complies with FCC Part 15 and TIA/EIA/IS-968.</li> </ul>
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## 7.0 FINISH

- 7.1 The unit shall be finished with a coating process known to be highly graffiti resistant and UV resistant.
- 7.2 Substrate preparation shall be as required to comply with applicable ASTM impact and adhesion standards.
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|--------|---------------------------|
| D2794  | Direct and Reverse Impact |
| D523   | Gloss @ 60 degrees        |
| D3359B | Cross Hatch Adhesion      |
| B117   | Salt Spray Resistance     |
- 7.3 The polyurethane finish shall be a multicoat system available in 10 standard colors and custom colors as specified by the user and approved by the manufacturer.
- 7.4 The primer coat and finish coat shall each have a minimum coverage thickness of 2.0 mils.
- 7.5 Other types of protective finishes are not acceptable.

## 8.0 GRAPHICS

- 8.1 The graphics shall be a durable engineering grade reflective vinyl for high visibility and legibility.
- 8.2 The standard graphics text shall be "Emergency," "Assistance," "Security" or "Courtesy," and shall be available in 20 inch lengths for the sides of the unit, and 11-

inch lengths for the front. Standard colors shall be “reflective white,” “reflective blue,” and “reflective black.”

## **9.0 OPTIONS**

- 9.1 The unit shall be capable of communicating through a full duplex radio frequency (RF) communications system operating within the 2.4-2.485 frequency band (license free). It shall be capable of transmitting calls by means of radio frequency and then routing them into a PBX or central office line. Push-to-talk interfaces are not acceptable. Radio frequencies of 400 and 800-900 MHz are not acceptable due to frequency interference from other communications devices. Refer to the RF specification for further details.
- 9.2 The unit shall be capable of cellular communications instead of hard-wire phone line. Refer to the cellular specification for further details.
- 9.3 An optional two-button version (Model CB3100-d) or a keypad version of the phone (Model CB3100-k) shall be available.
- 9.3.1 The two-button version (CB3100-d) features shall be as follows:
- There shall be a button labeled “Push for Help.” This button when touched will automatically activate the strobe and place a call.
  - There shall be a button labeled “Info.” This button when activated will automatically place a phone call to the pre-programmed number(s).
- 9.3.2 The keypad option (Model CB3100-k) features shall be as follows:
- There shall be a button labeled “Push for Help.” This button when touched will automatically activate the strobe and place a call.
  - There shall be a button labeled “Call.” This button shall open the phone line for calls to be made from the keypad.
- 9.4 With the use of the NightCharge™ option, it shall be possible to power the unit from a power grid that is not active 24 hours per day. Refer to the NightCharge™ option for further details.
- 9.5 With the use of the Solar option, it shall be possible to power the unit from the solar array without additional power requirements. Refer to the Solar option for further details.
- 9.6 The unit shall be capable of using a combination blue beacon and strobe kit with a remote mounting bracket for wall or pole. Refer to the combination beacon and strobe specification for further details.
- 9.7 The unit shall have the option of a pole mounting hardware kit to facilitate mounting the unit on a pole. This mount shall be a high quality stainless steel and be vandal resistant.
- 9.8 There shall be an option of customized paint colors and graphics. Colors other than standard shall be available based on RAL number specified by the user and approved by the manufacturer.

## **10.0 APPROVALS**

The unit in its standard configuration shall be certified by a recognized third party testing organization to conform to UL 60950-1/CSAC22.2 No. 60950-1-3.

## **11.0 WARRANTY**

The unit shall be warranted for a period of two years. Reference manufacturers warranty for further details.

## **12.0 MANUFACTURER**

12.1 The Manufacturer shall be Code Blue Corporation of Holland, Michigan. There are no

equivalents.

- 12.2 Code Blue Corporation manufactures its products according to the most recent revision of product specifications, and shall not be held responsible for obsolete or outdated specifications. For the latest revision, refer to [www.codeblue.com](http://www.codeblue.com).