

Architectural & Engineering Specifications
1.0 GENERAL DESCRIPTION

- 1.1 The unit shall be a powerful integrated public address speaker for 2 series model Help Points® from Code Blue Corporation, no substitutions.

2.0 CONSTRUCTION

- 2.1 A Public Address Speaker (PAS) will be placed approximately 13.41” below the top of the 2 series housing to the center.
- 2.2 The housing front shall be constructed of 12 gauge stainless steel brushed to a number 4B finish and a thickness of 0.105”.

3.0 ELECTRICAL

- 3.1 Requires at least 4 ampere at 24V AC standard.
- 3.2 The unit shall have the option of a Multi-Tap Transformer for connectivity to 120V AC, 240V AC and 277V AC primary power.

4.0 COMMUNICATIONS

- 4.1 The unit shall be a PAS assembly for mass notification capabilities:
- 4.1.1 The PAS assembly shall be equipped with an amplifier with the following specifications:

Parameters	Symbols	Test Condition/ Comment	Min	Typ	Max	Unit
Load Resistance:	RL		2.5	-	-	Ohms
Max Output Power:	Pmax	f=20Hz-20KHz (1% THD)		160	-	W
Output Power:	Po	f=20Hz-20kHz (0.1% THD)	-	150	-	W
Sensitivity:	Vsen	Input Signal to Po		3.5		Vrms
Gain:	A		16.5	17	17.5	dB
Distortion:	THD+N	10Hz<f<20kHz 100mW<Pout<Po	-	0.03	0.08	%
Freq. Response:	f	20Hz-20kHz	-	+/-0.5	-	dB
Noise Floor:	VNF	Input Shorted, A-weighted	-	25	35	uV
Maximum Current:	Imax		18	20	25	A
Damping Factor:	DF	RL=4 Ohms @ 100 Hz	-	375	-	Ohms

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Power Bandwidth:	BWpw	Output power: Pmax	-	60k	-	Hz
Small Signal Bandwidth:	BWsm	Output power: 1 Watt	-	90k	-	Hz
Signal to Noise:	SNR		117	-	-	dB

4.1.2 The PAS assembly shall be equipped with a 90-degree speaker with the following specifications:

<u>Parameters</u>	<u>Unit</u>
Impedance:	5.3 Ohms
Frequency Range:	650 Hz to 6500 Hz
Power Capacity:	50 Watts Continuous Program

4.1.3 The amplifier shall have the following additional features:

- Patented One-Cycle Sound™ Control
- Synchronized Switching Frequencies
- Output Feedback
- Full range 20 to 20kHz Bandwidth
- Efficiency: Amp > 95%
- DC offset < 25mV
- Remote Disable
- Silent Turn-On
- Full Protection:
 - Over Current Speaker Short
 - Over Current Short to Chassis Ground
 - Over Temperature Protection
 - Power Supply Under Voltage Lockout
- Monitor Outputs:
 - Output Current Monitor
 - Temperature Monitor
 - Protect and Power On
- Internal and remote gain adjustment

4.1.4 No additional infrastructure cabling or wireless shall be needed for PAS communications.

4.2 EIA/TIA, ANSI, CSA and BICSI cabling or similar standards shall be adhered to for proper operation of devices connected to copper or fiber infrastructure.

5.0 COMPLIANCE

- 5.1 NFPA 72 Chapter 24 (2010)

6.0 WARRANTY

- 6.1 The public address speaker for 2 series models shall be warrantied against any defects in material and workmanship, under normal use, for a period of 2 years from date of installation. If system is found by manufacturer to be defective within the warranty period, manufacturer shall repair and/or replace any defective parts, provided the equipment is returned to manufacturer.

7.0 MANUFACTURER

- 7.1 The Manufacturer shall be Code Blue Corporation. 800-205-7186, 259 Hedcor Street, Holland, Michigan 49423. www.codeblue.com. THERE ARE NO EQUIVALENTS.