

## INFORMATION

The Amron model 3120 Bell Box is designed to be used in saturation Diving Bell, Closed Bell or SDD (Submersible Decompression Chamber) applications. For maximum functionality and flexibility, Amron recommends connecting the 3120 bell box to a topside Amron 3222 Bell Communication Routing Panel and Amron's 2830R-02 Three-Diver DSP3 Rackmount Helium Speech Unscrambler (HSU) communicators. Use the Amron 2460-20 optional standard headset with EO connector for the bellman headset, not included with the unit.

The 3120 provides waterproof EO style connectors for diver umbilical and bellman headset connections. Mating EO connectors for use with diver umbilicals are included with the unit. Diver and headset connections are 4-wire while the speaker connection is 2-wire. The diver connections, headset connection and speaker all terminate at a top-mounted 20-pin MS connector for ease of wiring. A mating 20-pin MS connector is included to simplify routing a comm cable to a topside communicator.

Materials and components used are well suited to the hostile diving bell environment. Stainless steel construction and neoprene waterproof connectors are for maximum durability and corrosion resistance. The bell box is mounted using four 0.270 in. (6.86 mm) mounting holes located on the back of the unit, centered and symmetrically spaced 5.50 in. (139.7 mm) apart. Mounting hardware is not included.

## SPECIFICATIONS – FEATURES

- The 3120 Bell Box includes a panel mount speaker, a waterproof, female EO style bellman headset connector, and three diver's, waterproof, female EO style umbilical connectors.
- For maximum functionality and flexibility, Amron recommends connecting the 3120 bell box to a topside Amron 3222 Bell Communication Routing Panel and Amron's 2830R-02 Three-Diver DSP3 Rackmount Helium Speech Unscrambler (HSU) communicators.
- Use the Amron 2460-20 optional standard headset with EO connector for bellman headset.
- Provides five communication circuits: three for diver communication, one for the bellman headset, and one for the bell box speaker.
- Diver and bellman headset circuits are 4-wire connections.
- Bell speaker circuit is a 2-wire connection.
- To make it easier to route a comm cable to a topside communicator, the speaker, headset and diver connectors on the bell box all terminate at an MS-3102E-28-16P MS connector on the bell box top. A mating MS-3106E-28-16S connector is included.
- Stainless steel construction and neoprene waterproof connectors for maximum durability and corrosion resistance.
- Four 0.270 in. (6.86 mm) mounting holes located on the back of the unit, centered and symmetrically spaced 5.50 in. (139.7 mm) apart.

## **3120 BELL BOX INCLUDES**

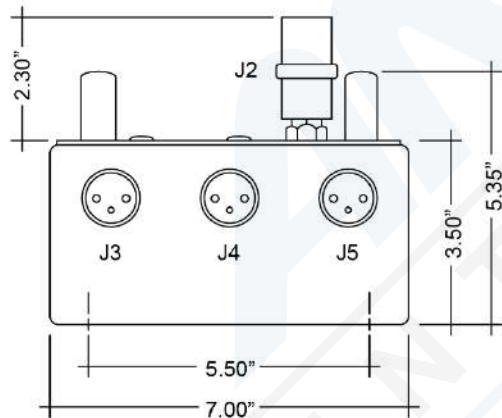
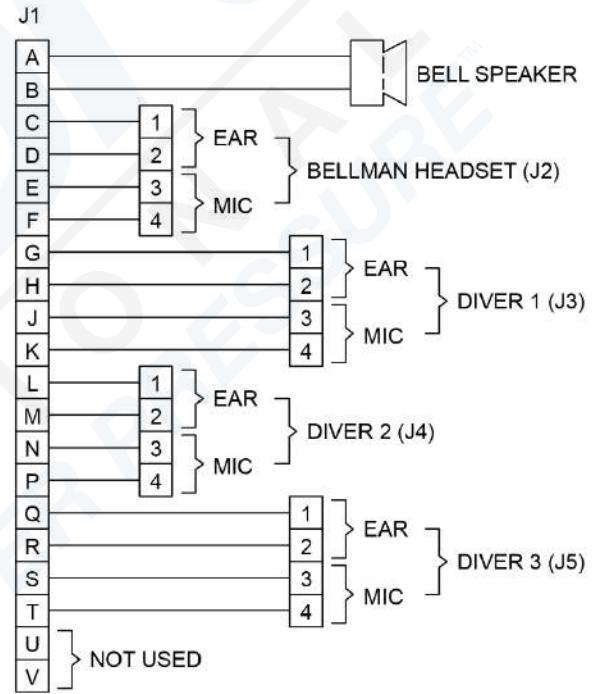
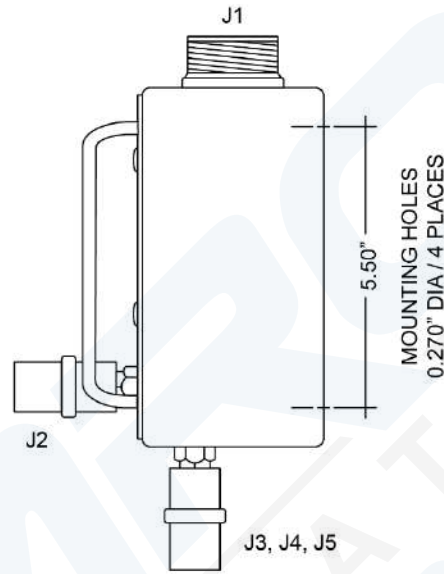
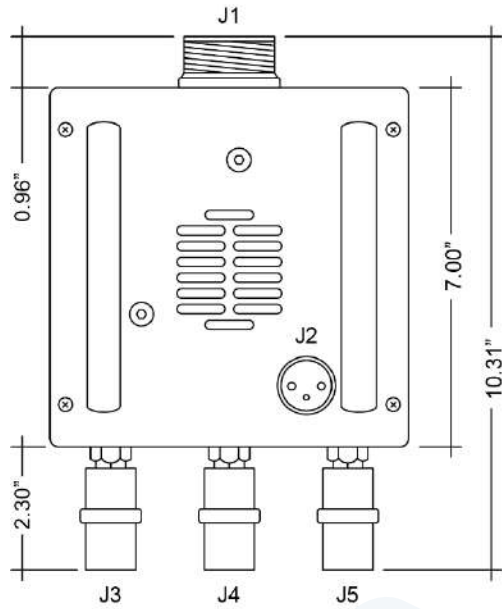
- (3) 2 Pin 4 Contact Male Waterproof Connectors - P/N: 160-0007-01
- (1) MS Connector 20 Pin - P/N: MS-3106E-28-16S

DISCLAIMER NOTICE: Amron's chamber communications are designed to be used in air chambers where oxygen concentrations remain below 23.5%. Our communications products (including communicators, speakers, entertainment systems, and other communications accessory items) are NOT designed for oxygen service, are not intrinsically safe, and do not meet the criteria given in NFPA-99, Chapter 20 and other applicable definitions. Misuse of our chamber communicator products in high-concentration Oxygen environments may result in serious injury and/or death.



## 3120 BELL BOX

### MOUNTING AND ELECTRICAL DIAGRAM



COLOR	PIN	FUNCTION
GREEN	4	MIC
RED	3	MIC
WHITE	2	EAR
BLACK	1	EAR

J1 = P/N MS-3102E-28-16P

J2, J3, J4, J5 = P/N 160-0008-01

