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## Amron 8211-01 Compact Two-Diver Surface Command Unit (SCU) Air Control System



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### FEATURES:

- The Amron International Model 8211-01 Compact Two Diver Air Control Surface Command Unit (SCU) is ergonomically designed with the customer in mind.
- This air control system provides all of the operations necessary to monitor and control the diving operation.
- This system is a self-contained high/low pressure air control and depth monitoring (pneumo) system with a field proven two-diver communicator for surface supplied diving operations.
- Ideal for the inland diver, but rugged enough for the offshore diver, the 8211-01 is a great Surface Command Unit for either application.
- The system comes standard with the field proven AMCOM II Series Communicator and is a full-featured hard-wired two-diver communicator with independent microphone and earphone volume controls for the tender and each diver. The communicator can operate in both 4-wire (full duplex), or 2-wire modes. The communicator has a built-in internal charger and can be operated from either a 90-264 V<sub>AC</sub>, internal 12 V<sub>DC</sub> battery, or an external 12 V<sub>DC</sub> power source.

### SPECIFICATIONS:

#### High Pressure Side:

- High air pressure inputs include two color coded (red and blue) SCUBA bottle yokes with six foot air hose whips.
- Standard 3000 PSI MAX input when using CGA850 yokes. Optional 4500 PSI MAX input when installing 300 Bar DIN Adapters, Amron Part number HAS-300D.
- Each input has a 0-6000 PSIG gauge and shut off valve to monitor and switch from one high pressure air source to the other.
- The added safety feature of check valves provides protection against back flow of air from a full tank into an empty when switching high pressure air tanks.
- High pressure air is reduced to low pressure via a pressure reducing regulator with a pre-regulator in-line 50 micron filter. A 0-600 PSIG gauge monitors the output pressure.
- A relief valve (factory set at 285 PSIG) prevents over pressurization.

#### Low Pressure Side:

- Input check valve permits simple switching to back-up high pressure air in the event of low pressure air failure. Back-up high pressure air supply can simply be turned on.
- Divers air hose connections are O2 fittings, controlled by quarter turn ball valves permitting unrestricted flow. **Note:** O2 fittings can be converted to JIC upon request.
- The LP input with safety check valve has a #6 JIC fitting and is protected from over pressurization by an over pressure relief valve set at 285 PSI.

#### Pneumo (Depth Monitoring) System:

- The heart of the pneumo system are two 4.5 inch precision gauges with 0.25 % of full scale accuracy and dual scale readings of 0-250 feet of seawater (FSW) / 0-76 meters of seawater (MSW). The gauge dials have a glare free face, mirror band with clearly marked one foot increments for fast accurate readings.
- Regulating Valve, KEL-F Seat: (2) with O2 Fitting Chrome Plated Brass.

#### Hardwire Communications:

- The 8211-01 comes standard with a field proven AMCOM 2825A series communicator.
- The Two-Diver hardwire communicator is a full-featured hard-wired communicator with independent microphone and earphone volume controls for the tender and each diver.
- The communicator has a built-in internal charger and can be operated from either a 90-264 V<sub>AC</sub>, internal 12 V<sub>DC</sub> battery, or an external 12 V<sub>DC</sub> power source.
- Can be operated in both 2-Wire and/or Full Duplex (4-Wire) communication modes. Modes can also be used simultaneously.
- The communicator comes standard with **Microphone Auto Detection** that identifies the type of microphone each diver is using and automatically adjusts for optimum performance. This communicator has the ability to operate with any combination for both dynamic and pre-amplified microphones.
- The noise canceling hand-held push-to-talk microphone improves the quality of communication by eliminating topside noise to the divers.
- Panel: Black Powder Coat over Stainless Steel with White Silkscreen Graphics

#### Newly Designed Hardwire Communicator Enhancements:

- Ultra-low noise circuit combined with noise suppression circuitry produces crystal clear speech. Automatic gain adjustment will guard audio signal from distortion, enhance speaker protection and audio quality. Increases band width 47%.

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- Audio amplifier card deploys the state-of-the-art Class-D digital audio power amplifier. Has very low power dissipation, produces less heat, and extends battery life up to 32%.
- The audio amplifier card has adjustable gain settings to accommodate different communication applications and environments.
- EMI is achieved through spread-spectrum and de-phase control techniques providing for optimum integration with diving systems.
- The built-in internal charger allows for simultaneous charging and operation of the unit while protecting the rechargeable battery from being overcharged. Automatically supplies power to the audio amplifier when AC power is disconnected to allow for continued operation.

### Air Control:

#### High Pressure

- Input Supply Pressure Range - Standard Unit: 500-3000 PSIG
- Input Supply Pressure Range - DIN Adapter (Optional): 500-4500 PSIG
- Regulator Outlet Range: 0-400 PSI
- Regulator High Flow: Cv = 0.8
- Aqua Environment Pressure Reducing Regulator
- Yokes & Whips: 6 ft. blue and red
- Inlet Connection: #4 JIC (Stainless Steel)
- (2) Inlet Valve: Source Select Regulating Type
- (2) Input Gauge: 0-6000 PSI: Accuracy +/- 1.5%
- (2) Check Valve: 1/3 PSI
- In Line Filter: 50 micron

#### Low Pressure

- Inlet Fitting: #6 JIC
- Check Valve: 1 PSI
- Diver Outlet: Ball Valve
- Output Fitting: Oxygen
- Pressure Gauge, 0-600 PSI: Accuracy +/- 1.5%
- Over Pressure Relief Valve: Set at 285 PSIG

#### Pneumo (Depth)

- (2) Pneumo Gauge: Mirrored Scale, 4-1/2 Inch, Dual Scale 0-250 FSW/0-76 MSW, 0.25% of Full Scale
- (2) Pneumo Valve: Regulating Type, KEL-F Seat
- (2) Pneumo Output Fitting: Oxygen

#### Panel:

- Panel Material: Black Textured Semi-Gloss Polyester coated over Stainless Steel
- Graphics: Red, white and blue

#### Case:

- Dimensions 24-1/2 in. W x 19-1/2 in. D x 8 1/2 in. H with lid closed
- Dimensions 24-1/2 in. W x 21-1/2 in. D x 26 in. H with lid open
- Weight: Approximately 60 lbs.
- Case Material: Co-polymer composite material. Includes carrying handle, latches, and stay hinge to lock unit in open position (upper section is locked upright in respect to lower section).
- Color: International Yellow

#### Weight:

- Weight 62.7 lbs. (28.44 kg)

#### Included With Communicator:

Amron 8211-01 Compact Two-Diver Surface Command Unit (SCU) Air Control System includes:

- Amron 2405-28 Hand-Held Push-to-Talk Microphone
- Amron 8225-500 HP Yoke/Hose Assembly
- Amron 8211-UM Compact 2-Diver SCU Air Control User Manual

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