

AIR CONTROL SYSTEMS



AMCOMMANDS

Amcommand I

8111

The Amron International Amcommand I™ is a complete one diver air control, depth monitoring and communications system. We have used our extensive experience in building quality life support equipment and put together the finest one diver console available today.

Features

- Two high pressure supply connections with two color coded, 6 ft. SCUBA yokes and whips
- Each high pressure input has a color coded shut off valve and a 0-5000 PSI pressure gauge
- Check valves on each input provide protection against back flow of air from a full bottle to the empty in case the operator forgets to close the valve when switching bottles
- High quality Tescom adjustable, nonventing regulator reduces the high pressure air to low pressure air
- Regulator input is protected against contamination by a 50 micron filter and a 0-400 PSIG gauge monitors the output pressure
- Relief valve (factory set at 285 PSIG) limits over pressurization
- 2810A communicator has individual volume controls for the diver and tender which provides for individual preferences of volume
- Communicator has AC power with battery back-up power
- 6 in. Pneumo System 0-250 FSW/76 MSW .25% accuracy full scale
- Built-in snubber for reducing pulsating and shock pressure
- Optional heating cable is 18 ft. long and is wrapped around the high pressure input and regulator section located on the backside of manifold panel; the standard plug connection 120 VAC heater is located on the front panel for ease of use; lower case is insulated with closed cell foam to help protect against severe weather conditions as an added safety feature, a GFCI in-line cord set is supplied

Amcommand I™ 1-Diver Air Control System: Part Number 8111 Includes

- Hand-Held Push-to-Talk Microphone: Part Number 2405-28
- HP Yoke/Hose Assembly: Part Number 8111-500
- User Manual

Amcommand I™ with Heating Element: Part Number 8111-H Includes

- Hand-Held Push-to-Talk Microphone: Part Number 2405-28
- HP Yoke/Hose Assembly: Part Number 8111-500
- GFCI Cord Set In-Line 2 FT: Part Number 1080-14-2S
- User Manual

Communications Specifications	
Power	110/220 VAC 50/60Hz (automatic sensing) with Internal/ External Battery, 12 VDC
Battery Life	50 hrs (approx.)
Freq. Response	300 Hz - 3 kHz
Audio Power	20 Watts per channel
Pneumo Specifications	
Pneumo Gauge	6 in. Dual Scale 0-250 FSW/76 MSW
Pneumo Fitting	O ₂ (#4 JIC optional)
Specifications	
Dimensions	8.5 in. H x 20 in. W x 17 in. D (21.6 cm x 50.80 cm x 43.2 cm)
Weight	45 lbs (20.4 kg)



8111 AMCOMMAND I™ 1-DIVER AIR CONTROL SYSTEM

Amron Amcommand I™	
8111	Amcommand I™ 1-Diver Air Control System
8111-H	Amcommand I™ with Heating Element
Accessories	
2460-28	Standard Headset, with Boom Mic and Dual Banana Plugs
2460SM-28	Single Ear Headset with Dual Banana Plugs
2821-28	Remote Push-to-Talk 25 ft. Cable (2-Wire Mode)
2822-28	Remote Walk-and-Talk 25 ft. Cable (4-Wire Mode)
SAA5300	300 bar DIN Inlet Adapter
BD-CT	Digital Timer / Clock
Air Control Specifications	
HP Supply Pressure	3000 PSIG
HP Supply with 300 bar DIN	4500 PSIG
HP Inlet Valve	2 ea. source select
HP Gauge	0-5000 PSIG
HP Check Valve	2
HP Yokes and Whips	2 ea. 6 ft.
HP Regulator Output	0-250 PSIG
HP Regulator Max.	4500 PSIG
LP Output Fitting	O ₂
LP Inlet Fitting	#6 JIC

AMCOMMAND I PANEL CALL-OUT

Communications

The 2810A communicator comes complete with a Hand-Held Push-to-Talk microphone which cancels topside background noise and provides clear communication to the diver.

Low Pressure Side

Input check valve permits simple switching to back-up high pressure air in the event of low pressure air failure.

Air Control

Two high pressure supply connections with two color coded, 6 ft. SCUBA yokes and whips. The whips and yokes remain attached to the lid of the unit during storage or transit.



Pneumo System

The heart of the Pneumo System is the high precision 6 in. depth gauge. The gauge dial has a glare free face and is clearly marked for fast, accurate readings. Accuracy is .25%, full scale. The system has a built-in snubber for reducing pulsating and shock pressure loads to the precision gauges. Diver's Pneumo connection is O₂.

Diver's Umbilical Connection

Diver's umbilical air connection is an O₂ fitting, controlled by a quarter turn ball valve which permits unrestricted flow. Safety relief valve factory set at 285 PSI.

THE CASE

- Pressure Equalization Valve
- Easy Open Double Throw Latches
- Watertight O-Ring Seal
- Stainless Steel Hinge Pins with Heavy Duty Deflector Ribs
- Rubber Over-Molded Handle
- Stainless Steel Padlock Protectors
- Co-Polymer Composite Material



Digital Timer / Clock

BD-CT

- Countdown timer with alarm and time-out function - 23 hrs, 59 min., 59 sec. to 0
- Stopwatch - 0 to 23 hrs, 59 min., 59 sec.
- Real-time clock

Specifications

Dimensions	5-1/2 in. H x 3-3/4 in. W x 3/4 in. D
Digital Display	2-1/2 in.



AMCOMMANDS

Amcommand II

8225-HP

The Amron Amcommand II™ is a portable, self-contained, two diver complete dive system. The Amcommand II™ provides all of the operations necessary to monitor and control the diving operation.

Features

- High pressure inputs include two color coded (red and blue) SCUBA bottle yokes with 6 ft. hose whips
- Each input has a 0-5000 PSIG gauge and shut off valve to monitor and switch from one high pressure source to the other
- Check valves provide protection against back flow of air from a full tank into an empty when switching high pressure tanks
- High pressure air is reduced to low pressure via a Tescom regulator
- Regulator input is protected against contamination by a 50 micron filter and a 0-400 PSIG gauge
- Relief valve (factory set at 285 PSIG) prevents over pressurization
- Low pressure alarm (set at 100 PSI) for monitoring the output of a low pressure compressor or air storage system
- Communicator has external power supply with battery back-up power
- 6 in. Pneumo System 0-250 FSW/76 MSW .25% accuracy full scale
- Built-in snubber for reducing pulsating and shock pressure
- Gauge protectors are provided for each pneumo gauge
- Optional heating cable is 18 ft. long and is wrapped around the high pressure input and regulator section located on the backside of manifold panel; the standard plug connection 120 VAC heater is located on the front panel for ease of use; lower case is insulated with closed cell foam to help protect against severe weather conditions as an added safety feature, a GFCI in-line cord set is supplied

Amcommand II™ 2-Diver Air Control System: Part Number 8225-HP Includes

- Hand-Held Push-to-Talk Microphone: Part Number 2405-28
- HP Yoke/Hose Assembly Part Number: 8225-500
- External Battery Charger Part Number: 2823-602
- User Manual

Amcommand II™ 2-Diver Air Control System with Heating Element: Part Number 8225-HP-H Includes

- Hand-Held Push-to-Talk Microphone: Part Number 2405-28
- HP Yoke/Hose Assembly Part Number: 8225-500
- GFCI Cord Set In-Line 2 FT Part Number: 1080-14-2S
- External Battery Charger Part Number: 2823-602
- User Manual

Amcommand II™ 2-Diver Air Control System with Wireless Tender Option: Part Number 8225-HP/28FDW Includes

- Hand-Held Push-to-Talk Microphone: Part Number 2405-28
- HP Yoke/Hose Assembly: Part Number 8225-500
- Remote Wireless Kit with Case: Part Number 2829-01
- External Battery Charger Part Number: 2823-602
- User Manual

For more Wireless Tender Option information please see page 12.

Communications Specifications	
Power	2 ea. 12V Rechargeable Batteries or 12V External Power
Battery Life	60 hrs (approx.)
Freq. Response	300 Hz - 7.5 kHz
Audio Power	22 Watts per channel



8225-HP AMCOMMAND II™ 2-DIVER AIR CONTROL SYSTEM

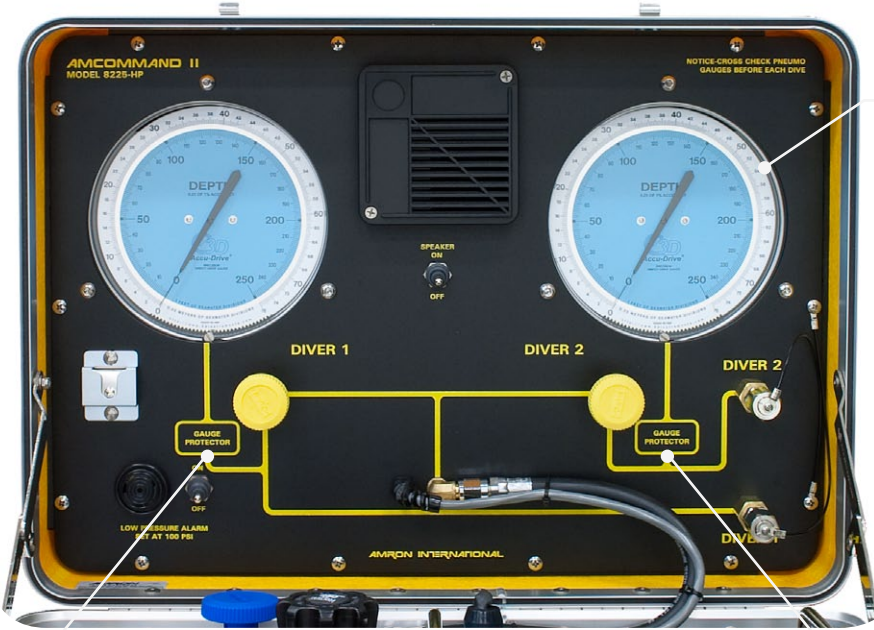
Amron Amcommand II™	
8225-HP	Amcommand II™ 2-Diver Air Control System
8225-HP-H	Amcommand II™ with Heating Element
8225-HP/28FDW	Amcommand II™ with Wireless Tender Option

Accessories	
2460-28	Standard Headset, with Boom Mic and Dual Banana Plugs
2460SM-28	Single Ear Headset with Dual Banana Plugs
2821-28	Remote Push-to-Talk 25 ft. Cable (2-Wire Mode)
2822-28	Remote Walk-and-Talk 25 ft. Cable (4-Wire Mode)
2829-01	Wireless Kit with Case
2829-04	Remote Wireless Headset, Single Muff
SAA5300	300 bar DIN Inlet Adapter
BD-CT	Digital Timer / Clock

Air Control Specifications	
HP Supply Pressure	3000 PSIG
HP Supply with 300 bar DIN	4500 PSIG
HP Inlet Valve	2 ea. source select
HP Gauge	0-5000 PSIG
HP Check Valve	2
HP Yokes and Whips	2 ea. 6 ft.
HP Regulator Output	0-250 PSIG
HP Regulator Max	4500 PSIG
HP In-line Filter	50 micron
LP Relief Valve	Set 285 PSIG
LP Output Fitting	O ₂
LP Inlet Fitting	#6 JIC

Specifications	
Weight	70 lbs
Dimensions	20 in. W x 14 in. D x 12 in. H

AMCOMMAND II PNEUMO PANEL CALL-OUT



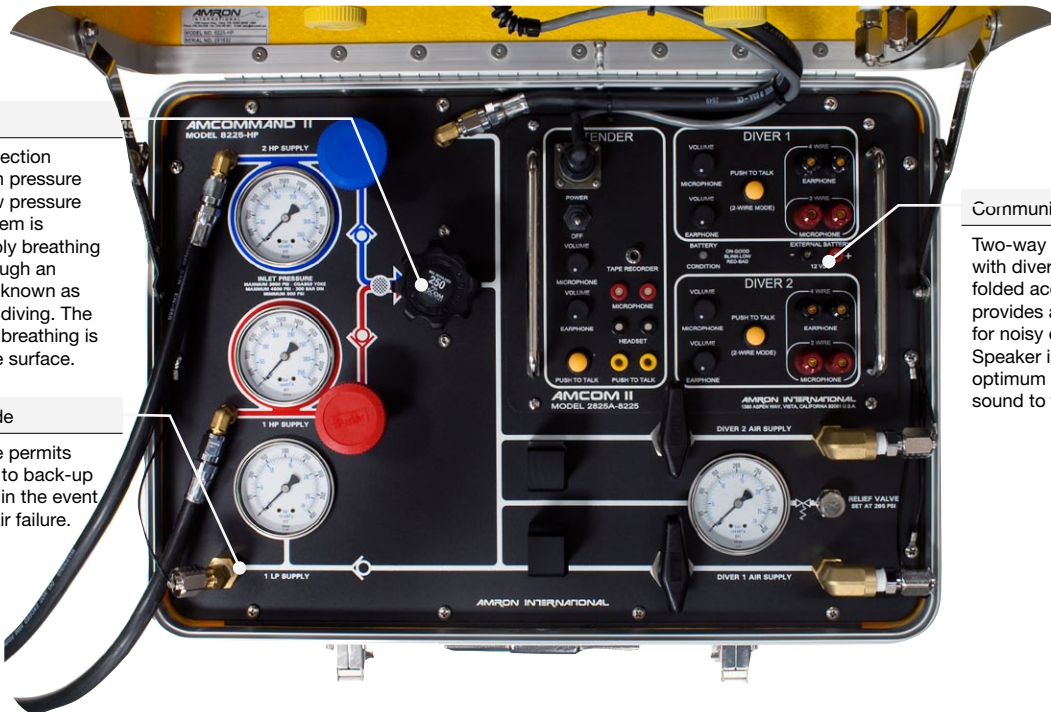
Pneumo Gauges

Pneumo Gauges have a 6 in. dial, dual scale 0-250 FSW/0-76 MSW, with 1 ft. calibration increments. The accuracy of the gauge is 0.25% of full scale. Gauges are supplied with calibration certificates traceable to the National Bureau of Standards.

Gauge Protector

The Amcommand II™ Pneumo section has gauge protectors to protect the pneumo gauges from over pressurization. Each pneumo gauge is protected by an automatic valve which is factory set to shut off all pressure to the gauge when the pressure reaches or exceed the set point.

AMCOMMAND II PANEL CALL-OUT



Air Control

The Air Control Section consists of a high pressure section and a low pressure section. The system is designed to supply breathing air to a diver through an umbilical. This is known as surface supplied diving. The air the divers are breathing is supplied from the surface.

Low Pressure Side

Input check valve permits simple switching to back-up high pressure air in the event of low pressure air failure.

Communications

Two-way communications with divers. High power folded acoustic horn, provides ample volume for noisy environments. Speaker is mounted in the optimum plane to direct sound to the operator.

AMCOMMANDS

Amcommand II with Dual Regulators

8225-HP2

The Amcommand II™ with dual regulators is Amron's complete 2-Diver communication and monitoring system. As a central control point, the Amcommand II™ enables monitoring of critical indicators while providing superior communication between divers and topside personnel.

Features

- High pressure inputs include two color coded (red and blue) SCUBA bottle yokes with 6 ft. hose whips
- High pressure cross connect valve
- Each input has a 0-5000 PSIG gauge and shut off valve to monitor and switch from one high pressure source to the other
- Check valves provide protection against back flow of air from a full tank into an empty when switching high pressure tanks
- High pressure air is reduced to low pressure via two Tescom regulators
- Regulator input is protected against contamination by a 50 micron filter and a 0-400 PSIG gauge
- Relief valve (factory set at 285 PSIG) prevents over pressurization
- Low pressure alarm (set at 100 PSI) for monitoring the output of a low pressure compressor or air storage system
- Communicator has external power supply with battery back-up power
- 6 in. Pneumo System 0-250 FSW/76 MSW .25% accuracy full scale
- Built-in snubber for reducing pulsating and shock pressure
- Gauge protectors are provided for each pneumo gauge

Amcommand II™ with Dual Regulators 2-Diver Air Control System: Part Number 8225-HP2 Includes:

- Hand-Held Push-to-Talk Microphone: Part Number 2405-28
- HP Yoke/Hose Assembly Part Number: 8225-500
- External Battery Charger Part Number: 2823-602
- User Manual

For more Wireless Tender Option information please see page 12.

Air Control Specifications			
HP Supply Pressure	3000 PSIG		
HP Supply with 300 bar DIN	4500 PSIG		
HP Inlet Valve	2 ea. source select		
HP Cross Connect Valve	1 ea.		
HP Gauge	0-5000 PSIG	HP Check Valve	2 ea.
HP Yokes and Whips	2 ea. 6 ft.	HP Regulator	2 ea.
HP Regulator Output	0-250 PSIG	HP Regulator Max	4500 PSIG
HP In-line Filter	50 micron	LP Relief Valve	Set 285 PSIG
LP Output Fitting	O ₂	LP Inlet Fitting	#6 JIC



8225-HP2 AMCOMMAND II™ WITH DUAL HP REGULATORS

Amron Amcommand II™ with Dual Regulators

8225-HP2	Air Control System
8225-HP2/28FDW	With Wireless Tender Option

Accessories

2460-28	Standard Headset, with Boom Mic and Dual Banana Plugs
2460SM-28	Single Ear Headset with Dual Banana Plugs
2821-28	Remote Push-to-Talk 25 ft. Cable (2-Wire Mode)
2822-28	Remote Walk-and-Talk 25 ft. Cable (4-Wire Mode)
2829-01	Wireless Kit with Case
2829-04	Remote Wireless Headset, Single Muff
SAA5300	300 bar DIN Inlet Adapter
BD-CT	Digital Timer / Clock

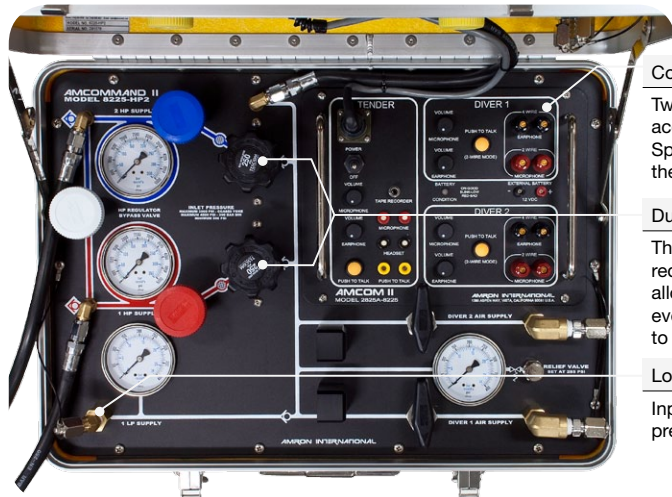
Communications Specifications

Power	2 ea. 12V Rechargeable Batteries or 12V External Power
Battery Life	60 hrs (approx.)
Freq. Response	300 Hz - 7.5 kHz
Audio Power	22 Watts per channel

Specifications

Weight	70 lbs
Dimensions	20 in. W x 14 in. D x 12 in. H

AMCOMMAND II DUAL REGULATORS PANEL CALL-OUT



Communications

Two-way communications with divers. High power folded acoustic horn, provides ample volume for noisy environments. Speaker is mounted in the optimum plane to direct sound to the operator.

Dual High Pressure Regulators

The High Pressure Section consists of two high pressure reducing regulators. Dual regulators increase diver safety by allowing quick cross-over of the high pressure regulator in the event one regulator should fail. High pressure air is reduced to low pressure via the Tescom regulator.

Low Pressure Side

Input check valve permits simple switching to back-up high pressure air in the event of low pressure air failure.

3-Diver Air Control System

8330

The Amron Model 8330 Portable 3-Diver Air Control and Depth Monitoring System is a portable self-contained three diver high and low pressure air control and depth monitoring (pneumo) system for surface supplied diving operations. The system is designed to provide a central control point for the supply of breathing air to three divers and monitor their depth.

Features

- 44-1300 High Performance Series Tescom Regulator(s)
- Two high pressure and one low pressure air source connections (8330)
- Convenient switching between high pressure or low pressure
- Low pressure audio alarm (Factory set at 100 PSIG)
- 50 Micron in-line stainless filter on regulator input
- Check Valves on all source inputs
- Automatic Gauge Protectors and Snubbers protect against over pressurization of precision pneumo gauges
- Optional heating cable is 24 ft. long and is wrapped around the HP input and regulator section located on the backside of the manifold panel; this standard plug connection 120 VAC heater is located on front panel for ease of use
- As an added safety feature, a GFCI inline cord set is supplied; the lower case is insulated with closed cell foam to help protect against severe weather conditions



8330 3-DIVER AIR CONTROL

High Pressure Section	
Inlet Connection	#6 JIC (2 total)
Input Pressure Range	500-5000 PSIG
Inlet Valve	Source Select (2 total)
Gauge	0-6000 PSIG Accuracy ± 1.5%
Input Filter, In-line Pre-regulator	50 micron
Tescom High Pressure Regulators	2 ea.
Outlet Pressure Range	0-300 PSIG
Max Pressure	5000 PSIG
Low Pressure Section	
Inlet Connection	#8 JIC
Check Valve	2 ea.
Diver Outlet Connection	3 ea. O ₂ Fittings
Diver Outlet Valve	3 ea.
Air Pressure Gauges	3 ea. 0-400 PSIG Accuracy ± 1.5%
Over-pressure Relief Valve	Set Pressure 285 PSIG

3-Diver Air Control	
8300-HP	3-Diver Air Control with 1 HP Regulator and 2 LP Inputs
8330	3-Diver Air Control with 2 HP Regulators and 1 LP Input
8330-H	8330 with Heating Element
8330A-H	Army Version of 8330-H with Heating Element, LP Input Submarine Fitting
Accessories	
BD-CT	Digital Timer / Clock
Depth Monitoring Pneumo	
Pneumo Gauge	3 ea. 6 in. Dual Scale
Range	Dual Scale 0-250FSW / 0-76MSW
Accuracy	0.25% of Full Scale with 1 ft. Divisions
Pneumo Valves	7 ea. Regulating Valve
Outlet Connection	3 ea. O ₂ Fitting, Brass
Low Pressure Alarm	Pressure Range 22.5-125 PSIG Factory Set at 100 PSIG
Panel Construction	
Material	Aluminum, Stainless Steel
Powder Coating	Black Textured Semi-Gloss Polyester
Silkscreen Graphics	Yellow and White Silkscreen
Case Dimensions	
Lid Closed	25 in. W x 20 in. D x 15 in. H
Lid Open	25 in. W x 20 in. D x 29 in. H
Weight	95 lbs (approx.)



AIR CONTROL SYSTEMS

2-Diver Air Control System and Depth Monitoring System

8120-HP

The 8120-HP is designed for both high and low pressure. The Amron Model 8120-HP Air Control and Depth Monitoring System consists of a two diver depth monitoring system with high accuracy precision gauges and two diver air control manifold housed in a highly durable pressure molded fiberglass case.

2-Diver Air Control and Depth Monitoring

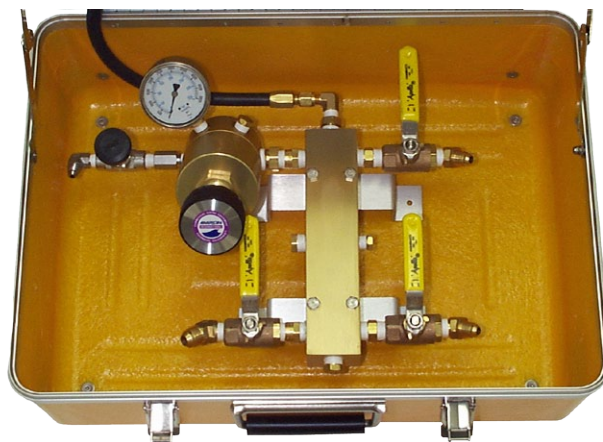
8120-HP1-5000	2-Diver, 1 Regulator, High Pressure
8120-HP2-5000	2-Diver, 2 Regulator, High Pressure
BD-CT	Digital Timer / Clock

Model 8120-HP Specifications

Inlet Connection	#4 JIC
Working Pressure (LP)	400 PSIG
Depth Gauges	2 ea., 6 in. dial Dual Scale 0-250 FSW/76 MSW
Low Pressure Gauges	1 ea., 0-400 PSIG
LP Input Connector	#8 JIC
Diver Output Connector	#6 JIC
Pneumo Connector	O ₂
Weight	36 lbs (16 kg)
Dimensions	20 in. W x 14 in. D x 12 in. H



8120-HP1-5000 2-DIVER, 1-REGULATOR HIGH PRESSURE



1-REGULATOR HIGH PRESSURE



8120-HP2-5000 2-DIVER, 2-REGULATOR HIGH PRESSURE



2-REGULATOR HIGH PRESSURE

2-Diver Air Control System and Depth Monitoring System

8120

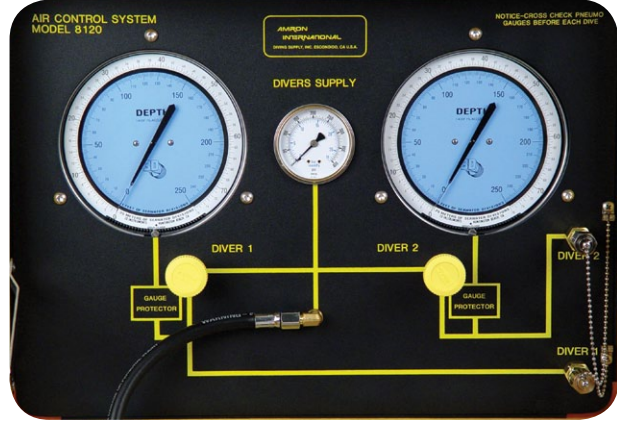
The Amron Model 8120 Air Control and Depth Monitoring System consists of a two diver depth monitoring system with high accuracy precision gauges and two diver air control manifold housed in a highly durable pressure molded fiberglass case. The 8120 is configured for low pressure systems.

Features

- Check Valves on both inputs
- Gauge Snubbers protect the gauges from pulsating and shock pressure
- Gauge Protectors protect gauges from over pressurization
- Automatic gauge protector, locks upon reaching set pressure, unlocking upon removal of over pressure
- Air Control Manifold allows selection of two air sources
- Enclosure is a strong pressure molded fiberglass case; center hinged with stay hinges to lock the unit in the open position
- All hardware is stainless steel or aluminum including carrying handle and latches



8120 2-DIVER AIR CONTROL AND DEPTH MONITORING SYSTEM



8120 CONTROL PANEL DETAIL

2-Diver Air Control System and Depth Monitoring System

8200

The Model 8200 is a deluxe self-contained two diver, low pressure air control and depth monitoring system that is ready to use as soon as the case is opened. This extra attention to detail makes the 8200 your best buy for air control and depth monitoring.

Features

- Gauge snubbers protect gauges from pulsating and shock pressure
- Automatic gauge protector, locks upon reaching set pressure, unlocking upon removal of over pressure
- Panel mounted valves and gauges
- Durable, international yellow case

Accessories

BD-CT Digital Timer / Clock

Model 8200 Specifications

Working Pressure (LP)	300 PSIG
Depth Gauges	2ea., 6 in. dial Dual Scale 0-250 FSW/76 MSW
Low Pressure Gauges	3 ea., 0-300 PSIG
LP Input Connector	#8 JIC
Diver Output Connector	#6 JIC
Pneumo Connector	O ₂
Enclosure	Pressure molded fiberglass
Weight	42 lbs (20 kg)
Dimensions	20 in. W x 14 in. D x 12 in. H

