

TWO DIVER PORTABLE PANEL WITH TWO DIVER RADIO SY-2DAP-D040-R-SF / BF



PART NO : SY-2DAP-D040-R

Two diver panel with radio



TWO DIVER PORTABLE PANEL WITH TWO DIVER RADIO SY-2DAP-D040-R-SF / BF



PART NO : SY-2DAP-D040-R

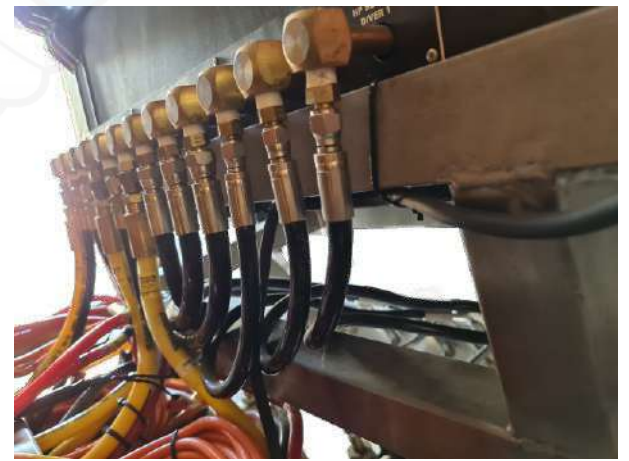
Two diver panel with radio

TWO DIVER PORTABLE PANEL WITH TWO DIVER RADIO SY-2DAP-D040-R-SF / BF

DIVING PANEL WITH RIGHT SIDE (DIVER 1) AND LEFT SIDE (DIVER 2) INLET AND OUTLET FITTINGS



DIVING PANEL WITH DIVER 1 AND DIVER 2 INLET AND OUTLET FITTINGS FROM THE BACKSIDE OF THE PANEL



TWO DIVER PORTABLE PANEL WITH TWO DIVER RADIO SY-2DAP-D040-R-SF / BF

Information Two Diver Panel

Case	Model 1650, Black, Interior (28.57" L x 17.52" W x 10.65" H), with wheels and handle, water, rust and dust proof), Pelican USA Exterior dimensions: 80.14 x 52.1 x 31.67cm (31.55" x 20.51" x 12.47") Interior dimensions: 72.16 x 44.2 x 27.03cm (28.41" x 17.40" x 10.64") Weight without foam: 10.9kg (24.03lbs)
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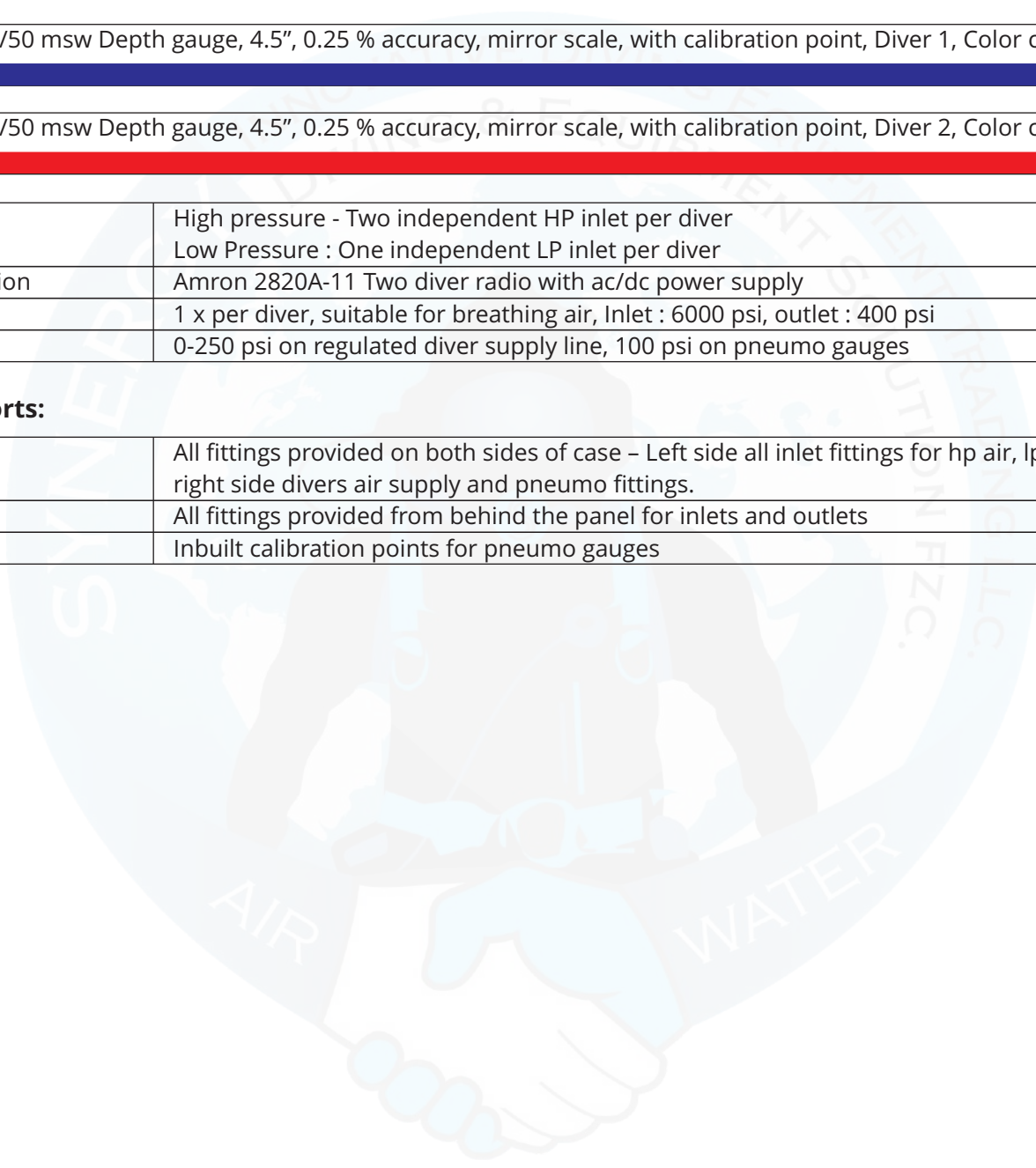
1 x 0-160 fsw/50 msw Depth gauge, 4.5", 0.25 % accuracy, mirror scale, with calibration point, Diver 1, Color coded Blue 
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1 x 0-160 fsw/50 msw Depth gauge, 4.5", 0.25 % accuracy, mirror scale, with calibration point, Diver 2, Color coded Red 

Air Supplies	High pressure - Two independent HP inlet per diver Low Pressure : One independent LP inlet per diver
Communication	Amron 2820A-11 Two diver radio with ac/dc power supply
Regulator	1 x per diver, suitable for breathing air, Inlet : 6000 psi, outlet : 400 psi
Relief valves	0-250 psi on regulated diver supply line, 100 psi on pneumo gauges

Air supply ports:

Option 1 - SF	All fittings provided on both sides of case – Left side all inlet fittings for hp air, lp air, right side divers air supply and pneumo fittings.
Option 2 - BF	All fittings provided from behind the panel for inlets and outlets
Calibration	Inbuilt calibration points for pneumo gauges



SY-2820A-11 AMCOM II TWO-DIVER RECHARGEABLE BASIC PORTABLE COMMUNICATOR



NEWLY DESIGNED ENHANCEMENTS:

High Audio Fidelity

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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Extended Battery Operation Time

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%.

Flexible Gain Settings

The audio amplifier card has adjustable gain settings to accommodate different communication applications and environments.

Ultra-Low Electromagnetic Interference (EMI)

EMI is achieved through spread-spectrum and de-phase control techniques providing for optimum integration with diving systems.

Outdoor Rated AC Power Module

Weather resistant, IP65 rated AC power entry module accommodates country specific AC power cords.

Country Specific V-Lock AC Power Cord

At time of order, simply choose the IP54 rated Locking AC power cord you need.

FEATURES:

- Single volume control for both divers.
- Diver's umbilicals can be set up on 4-wire mode (full duplex) or 2-wire mode (push-to-talk) or any combination of the two modes for each diver.
- Ability to use both dynamic and pre-amplified diver microphones with a unique circuit that detects microphone type and automatically adjusts volume levels.
- The divers' connections consist of cross-talk and separate speaker and microphone inputs.
- Internal charger allows for simultaneous charging and operation of the unit while protecting the rechargeable battery from being over-charged. Automatically supplies power to the audio amplifier when AC power is disconnected to allow for continued operation.
- See Tech Note (below) for recommended accessories.

SY-2820A-11 AMCOM II TWO-DIVER RECHARGEABLE BASIC PORTABLE COMMUNICATOR

SPECIFICATIONS:

- Input Impedance (Each Input): 250 Ohms
- Frequency Response: 300 - 10000 Hz
- Common Mode Rejection: 40 dB Minimum
- Current Drain Maximum Full Volume: 3 Amps
- Minimum Quiescent: 0.190 Amps
- Output Impedance: 4 Ohm
- Power Supply Voltage: 12 VDC Nominal (9 Volts Minimum - 16 Volts Maximum)
- AC Power Operating Range: 90-264 VAC, 50-60 Hz
- Sensitivity (Input): 0.5 mV
- Output Power (RMS @ 4 Ohm Load, 12 VDC): 10 Watts Audio
- Battery Life: 45 hours
- Dimensions: 10 in. H x 9 in. W x 14.5 in. L (25.4 cm x 22.9 cm x 36.8 cm)
- Weight: 16.25 Lbs. (7.37 Kg)

INCLUDED WITH COMMUNICATOR:

SY-2820A-11AMCOM II Two-Diver Rechargeable Basic Portable Communicator with Outdoor Power Module and International Locking Power Cord includes:

- (1) SY-2890-05 Amron 12 VDC Sealed Lead Acid Gel-Cell Rechargeable Battery with Slide terminals
- (1) SY-282XA-UM Amron Two Diver Portable Communicator User Manual

AVAILABLE OPTIONS:

- SY-2460SM-28 Amron Single Muff Operator Headset with Boom Mic and Dual Banana Plugs
- SY-2405-28 Amron Hand-Held Push-to-Talk Microphone
- SY-2401-28 Amron Deluxe Headset with Boom Mic
- SY-2460-28 Amron Standard Headset with Boom Mic
- SY-2822-28 Amron Remote Walk-and-Talk (4-wire mode)
- SY-2821-28 Amron Remote Walk-and-Talk (2-wire mode)

TECH NOTE:

All communicators will inherently transfer topside noise to the divers when the tender speaks directly into the communicator's panel speaker. To eliminate background noise at the surface, we recommend purchasing the 2405-28 Push-to-Talk Microphone (not included with this model). For optimum communications, it is recommended to use the 2401-28 Deluxe Headset with Boom Mic, topside. For tender maneuverability, use the 2401-28 Deluxe Headset with Boom Mic along with the 2822-28 Remote Walk-and-Talk (4-wire mode) or the 2821-28 Remote Walk-and-Talk (2-wire mode). For wireless tender communications, order the 2825A-03 Two Diver Deluxe Portable Communicator with built-in Wireless Tender option.

SYNERGY SURFACE DIVING HOSES AND UMBILICALS SY-AQUAFLOW



Diving Umbilical with protective outer sheet



Diving Umbilical with spiral wrap



Diving Umbilical without protective outer sheet

CLASS WITNESS CERTIFICATES

Industry & Facilities Division
Third Party Inspection Report

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INSPECTION REPORT No. ISIA.4.21.1018-41 Revision No. 0

By: [Signature] For: Scott Cameron, Services Panel (Name and Signature)

BY/On: Dubai Inspection Report Date 14.06.2020

Attachments Report: Yes No

B - REFERENCE DOCUMENTATION

Refer to attachment section 3, instead of attaching relevant documents to this report (if applicable)

Title	Reference No.	Rev.	Approval Status	Approved by / Date
Development System	0010-0010	01	As Issued	[Signature] 14/06/2020
Hardware System	0010-0010	01	As Issued	[Signature] 14/06/2020

C - ATTACHMENTS

Name	Position	Reporting
Mr. Alan Hill	Business Inspector	Business Inspector
Mr. Alan Hill	Inspector	Inspector

D - MOUNTING & TESTING EQUIPMENT USED

Refer to attachment section 3, instead of attaching relevant documents to this report (if applicable)

Equipment Type	Equipment Identity #	Last Calibration Date	Expiry Date
Digital Pressure Gauge	9162	01.01.2019	01.01.2020
Digital Pressure Gauge	902124537	15.04.2018	01.01.2021

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E - INSPECTION DETAILS

E1 - Details of Witness (If a Third-Party Inspection Point)

1. Pressure test was conducted by TRITON 362 for High Pressure (HP) PSL.
2. Pressure test was conducted by TRITON 362 for Low Pressure (LP) PSL.
3. Verification of Calibration Certificate for measuring instruments and pressure gauges used found in order.

E2 - Details of Mounting and Suspension Points

Yes No

1. Visual inspection of two diver airways was inspected and found satisfactory at the time of inspection.
2. Verification of seal chamber TRITON 362 was inspected and found satisfactory.
3. Pressure test was witnessed over multiple cycles and no pressure drop was observed and found satisfactory.
4. Verification of calibration certificate for the measuring instruments were found in order.

E3 - Details of Calibration Review

Yes No

- Calibration certificates of all measuring instruments used were verified and satisfactory.

F - HEALTH, SAFETY & ENVIRONMENT COMMENTS

(Current on Observations and Actions Taken During the Inspection)

- All safety safety procedures during inspection proceeded and satisfactory.

G - NON CONFORMITIES

Refer to attachment section 3, instead of attaching relevant documents to this report (if applicable)

No.	Description	Status	Resolution	Report	Accepted	Comments

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H - PUNCH LIST ITEMS

No.	Description	Status	Resolution	Report No.	Accepted	Comments

I - DIGITAL PICTURES



Description: Digital images inspection of the panel

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J - ATTACHMENTS

No.	Attachment Name	Total Pages	Description
1	1.001 - Long list items	81	Strong list items
2	2.001 - Test report	81	Test report
3	3.001 - Calibration certificate	81	Calibration certificate

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ANNEXURE

Inspection Details: TRITON 362 Two Diver Panel

- Witnessed Two Diver Panel - Insurance Pressure Testing with following details:

Description: Two diver Panel

Country of Origin: UAE

Manufacturer Serial No: TRITON 362

Year of Manufacture: Year 2020

Design Pressure: LP 330psi / HP 5300psi

Test Pressure: LP 330psi / HP 5300psi

Date of Witness for Pressure Test: 14.06.2020

Pneumatic Test Details

1. Pneumatic pressure test of Two Diver panel (Serial No: TRITON 362) was witnessed per the approved procedure.
2. High pressure supplied to the panel was 3300 psi - design pressure being 3300 psi.
3. Low pressure supplied to the panel was 330 psi - design pressure being 200 psi.
4. Open Pressure on the panel was held for 10 mins duration, observing no pressure drop or leakage and three found satisfactory.
5. Gas Solenoid lock test was performed on lock gas valves and piping showing no indications of leakage and three found satisfactory.

END OF REPORT

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Description: Pneumatic Pressure Test

Description: Safety Valve Test

Description: Solenoid Valve Test

Description: Three with Pressure Pressure

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INSPECTION SUBJECT OF INSPECTION

ITEM / TAG No.	QTY	QTY Offered for Inspection
Two Diver Panel - Pneumatic Test	01	01

INSPECTION RESULT

Satisfactory (Without comments) Satisfactory with comments (After closing Panels or after Confirmation items is still open) Not Satisfactory (With reason during the inspection)

Inspection Summary (for details refer to section 5)

- At the request of Mr. SYNERGY INNOVATIVE DIVING EQUIPMENT TRADING witness for the Diver Panel Pneumatic testing was carried out at Synergy Al Qudra on 14th June 2020 and results were found satisfactory.
- High Pressure Airspace carried out @ 5300 psi and low pressure @ 330 psi - duration: 10:00:00

Open Box Certificates

Item	Yes	Partial	No
Open Panel List Items	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pressure Area Number	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BY/Inspector's Stamping	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Certifications

Provided with each panel

Manufacturer	Synergy certification
International	IMCA D040
Class	Bureau Veritas pressure test certificates
Warranty	1 year international manufacturer warranty
Weight	46 kg

TWO DIVER PORTABLE PANEL WITH TWO DIVER RADIO SY-2DAP-D040-R-SF / BF

ORDERING INFORMATION


Sr.	Part Number	Description
1	SY-2DAP-D040-R-SF	Portable two diver panel, offshore, imca with radio (no diver cctv), side inlet and outlet fittings
2	SY-2DAP-D040-R-BF	Portable two diver panel, offshore, imca with radio (no diver cctv), back inlet and outlet fittings

Sr.	Part Number	Description
1	SY-2820A-11	Amcom ii two-diver rechargeable basic portable communicator
2	SY-UDA-0204	4 core Umbilical air/gas, pneumo, communication and video cables
3	SY-UDA-0103	3 core Umbilical air/gas, pneumo, communication
4	SY-ORANGESHEATH	Full braided protective outer sheath (for complete protection of umbilicals)
5	SY-SPIRAL WRAP	Spiral wrap (in 10 mtr lengths) (for umbilical protection)
	Fittings as below	
6	SY-386-PB-AIR	3/8"x 6 jic phosphor bronze reusable umbilical air/gas hose end fitting
7	SY-144-PB-PNEUMO	1/4" x 4 jic phosphor bronze reusable umbilical pneumo end fitting
8	SY-RMG-3-FS	Marsh marine, 3 pin, Female, 18"
9	SY-BANPLUGS-TWIN	Twin banana plugs surface communication end fitting (Red/Black)
10	SY-RMK-5-FS	Marsh marine, 5 pin, female, 18"
11	SY-K-FLS-D	Locking sleeve, delrin , for RMK-5-FS
12	SY-RMG-3-FS	Marsh marine, 3 pin, female, 18"
13	SY-G-FLS-D	Locking sleeve, delrin, for RMG-3-FS
14	SY- MS3108B-18-08P	Cannon right angle amphenol connector is used for connecting the Surface end of the video camera umbilical to the surface video console unit




BESPOKE DESIGNS – ANY CONFIGURATION AS PER CLIENT REQUIREMENT

TWO DIVER PORTABLE PANEL WITH TWO DIVER RADIO SY-2DAP-D040-R-SF / BF

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