

TWO DIVER PORTABLE PANEL WITH TWO DIVER RADIO AND ONE DIVER CCTV
#SY-2DAP-D040-R-1DV-SF / BF



PART NO : SY-2DAP-D040-R-1DV

Two diver panel with radio and diver 1 cctv system

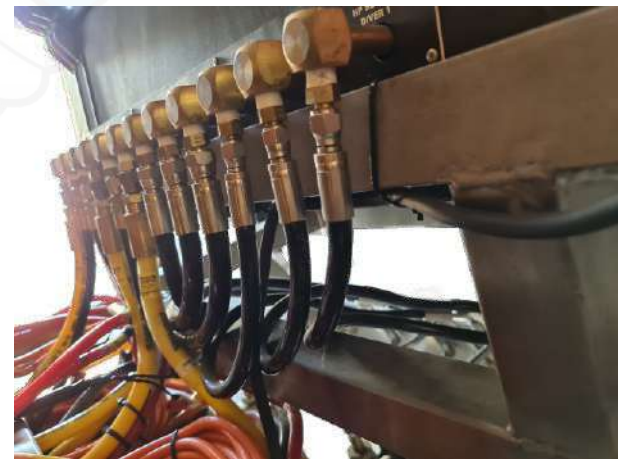


TWO DIVER PORTABLE PANEL WITH TWO DIVER RADIO AND ONE DIVER CCTV
#SY-2DAP-D040-R-1DV-SF / BF

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 AND ONE DIVER CCTV

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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

One Diver CCTV :

CCTV	For Diver 1
Monitor	TFT 15.5" (CCTV image for diver 1)
Surface control unit	All touch button controls with backlight for low visibility operations, video and light control
Primary recording	1 TB hard drive to record all diver video simultaneously
Secondary back up recording	1 TB backup hard drive to record all diver video simultaneously

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%.

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

OUTLAND VIDEO CAMERA / LIGHTS / UMBILICALS

Mechanical	Specification
Weight	6 oz (.2kg) Dry, 3 oz(.06kg) wet
Depth Rating	2000 ft (600m)
Housing	Black delrin
Electrical	
Image Device	1/3" CCD sensor (412k pixel)
Sensitivity	.001 lux @f1.4
Resolution	600 TV lines standard
Video Out	1.2 Vpp
Power	12 VDC @ 110 ma.
Optical	
Lens	3.6mm, Electronic-Iris
Focus	Fixed 4" to infinity
Angle of View	70 horz. (in water)



PART NO : SY-UWC-325/p/e



PART NO : SY-UWL-401

Mechanical	Specification
Weight	7oz(0.2kg) Dry, 3 oz.(.1kg) Wet
Depth Rating	2000 ft (600m)
Housing	6061-16 Anodized Aluminium
Electrical	
Power	12 VDC @ 110 ma.
Wattage	18 watt (Eq to 150 watt halogen)
Output	700 lux at 1 meter

Mechanical	Specification
Conductors	16ea #22 awg 1 RG-59 Coax
Length (mtrs)	100/150/200 as per requirement
Diameter	8.5mm (0.35")
Materials	Orange Polyurethane jacket
Breaking Strength	1200 lbs
End fittings	
Diver End	Moulded Y connection
Camera	Rmk-5-fs with locking sleeve
Light	Rmg-3-fs with locking sleeve
Surface end	Soldered connection
Cable	8 pin amphenol connector



PART NO : SY-VC-150M

SYNERGY PIGTAILS AND CONNECTORS

Connector	SY-RMK-5-FS
Type	5 Female Sockets
Cable	18 in Pigtail of 18 SO AWG Cable
Material	Special Neoprene, Molded
Contacts	Copper Alloy, Hard Gold Plated per ASTM-B-488
Voltage Rating	600 VDC
Pressure Rating, Mated	Up to 20,000 psi
Mates with	SY-XSL-5-BCL on Outland Camera SY-UWC-325/p/e

PART NO : SY-RMK-5-FS



PART NO : SY-RMG-3FS



Locking sleeve for Rmk-5-fs



PART NO : SY-K-FLS-D

Connector	SY-RMG-3-FS
Type	3 Female Sockets
Cable	18 in Pigtail of 18 SO AWG Cable
Material	Special Neoprene, Molded
Contacts	Copper Alloy, Hard Gold Plated per SY-ASTM-B-488
Voltage Rating	600 VDC
Pressure Rating, Mated	Up to 20,000 psi
Mates with	SY-XSG-3-BCL on Outland light SY-UWL-401

Locking sleeve for Rmg-3-fs

PART NO : SY-G-FLS-D



PART NO : SY-MS3108B-18-08P



Certifications	Provided with each system
International	IMCA D023
Manufacturer	Synergy Certificates
Electrical	Continuity/Function test



PART NO : SY-CLBRK

SS camera and light bracket with jubilee clamp

Cannon Right Angle Amphenol Connector is used for connecting the video camera umbilical to the surface video console unit.

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 Green, Services Panel (Name and Signature)

BY: Omer Dubai Inspection Report Date 14.06.2020

Attachments Report: Yes No

B - REFERENCE DOCUMENTATION

Refer to attachment section if used (include if separate document, not to be included in attachment)

Title	Reference No.	Rev.	Approval Status	Approved by	Date
Development System	0010-0001	02	As Issued	[Signature]	14/06/2020
Hardware System	0010-0001	02	As Issued	[Signature]	14/06/2020

C - ATTACHMENTS

Name	Location	Reporting
Mr. Alan Hill	Business Inspector	Business Unit
Mr. Alan Hill	Inspector	Business Unit

D - MEASUREMENT & TESTING EQUIPMENT USED

Refer to attachment section if used (include if separate document, not to be included in attachment)

Equipment Type	Equipment Identity #	Last Calibration Date	Expiry Date
Digital Pressure Gauge	9162	10.11.2019	21.11.2020
Digital Pressure Gauge	902124637	10.11.2019	20.11.2021

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E - INSPECTION DETAILS

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

1. Pressure test was carried out by TRITON 362 for High Pressure at 500 PSI.
2. Pressure test was carried out by TRITON 362 for High Pressure at 500 PSI.
3. Verification of Calibration Certificate for measuring instruments and pressure gauges used found to be valid.

E2 - Details of Manufacturer and Manufacturer Points

Refer to attachment section if used (include if separate document, not to be included in attachment)

1. Visual inspection of two diver arguments was inspected and found satisfactory at the time of inspection.
2. Verification of serial number TRITON 362 was inspected and found to be valid.
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 to be valid.

E3 - Details of Calibration Review

Refer to attachment section if used (include if separate document, not to be included in attachment)

- 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 protected and satisfactory.

G - NON CONFORMITIES

Refer to attachment section if used (include if separate document, not to be included in attachment)

No.	Description	Status	Resolution	Report	Accepted	Comments

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

H - PUNCH LIST ITEMS

No.	Description	Status	Resolution	Report	Accepted	Comments

I - DIGITAL PICTURES



DESCRIPTION: Check Visual Inspection (If the panel is inspected)

DESCRIPTION: Pressure Test (If the panel is inspected)

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J - ATTACHMENTS

No.	Attachment Name	Total Pages	Description
1	1.001 - Long Panel	81	Strong Panel
2	2.001 - 362 - 362 - 362	81	Strong Panel
3	3.001 - 362 - 362 - 362	81	Strong Panel

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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: 1P-330psi / HP-5300psi

Test Pressure: 1P-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. One Pressure in 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 valves and piping showing no indications of leakage and three found satisfactory.

END OF REPORT

Industry & Facilities Division
Third Party Inspection Report

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DESCRIPTION: Pressure Test (If the panel is inspected)

DESCRIPTION: Visual Inspection (If the panel is inspected)

DESCRIPTION: Visual Inspection (If the panel is inspected)

DESCRIPTION: Three with Pressure Pressure

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

INSPECTION SUBJECT

Project: Third party inspection services

By Client: H&M Stearns Diving and Equipment Solutions PSC

Inspection requested by: H&M Stearns Diving and Equipment Solutions PSC

Inspection performed on: 14.06.2020

INSPECTION SUBJECT OF INSPECTION

ITEM / TAG No.	QTY	QTY Offered to Inspect
Two Diver Panel - Pressure Test inspection	01	01

INSPECTION RESULT

Satisfactory (Without comments)

Satisfactory with comments (After closing of Panel or after Confirmation here is still open)

Not Satisfactory (With reason for 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 AI Qads on 14th June 2020 and results were found satisfactory.
- High Pressure Inspection carried out at 5300 psi and low pressure @ 530 psi - duration: 10:00:00

Open Box Certificates

Open Box Certificate	Yes	No
Yes, visible in section L	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Open Panel List Items	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pressure Area Number	<input checked="" type="checkbox"/>	<input type="checkbox"/>
By (Manufacturer) Stamping	<input checked="" 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 AND ONE DIVER CCTV #SY-2DAP-D040-R-1DV-SF / BF

ORDERING INFORMATION

Sr.	Part Number	Description
1	SY-2DAP-D040-R-1DV-SF	Portable two diver panel, offshore, imca with radio and diver 1 cctv, side inlet and outlet fittings
2	SY-2DAP-D040-R-1DV-BF	Portable two diver panel, offshore, imca with radio and diver 1cctv, 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 AND ONE DIVER CCTV
#SY-2DAP-D040-R-1DV-SF / BF

Contact us



29th Street, Amman Road, Behind Al Huraiz Est. For Industry,
Al Qusais, Industrial Area - 1,
Dubai, United Arab Emirates



Tel : 009714 2580533 



Fax : 042516664 



UAE : 00971505648178 



UK : 00447951966260 



Website : www.synergiequipment.com



Email : ram@synergiequipment.com



For Sale : info@synergiequipment.com

