

TWO DIVER PORTABLE PANEL WITH TWO DIVER RADIO AND TWO DIVER CCTV ALONG WITH TWO PORTABLE 20 LTR BA COMPOSITE LIGHT WEIGHT CYLINDER IN PLEICANE CASE



PART NO : SY-2DAP-D040-SF-2DV

Two diver panel with radio and diver 1 cctv system

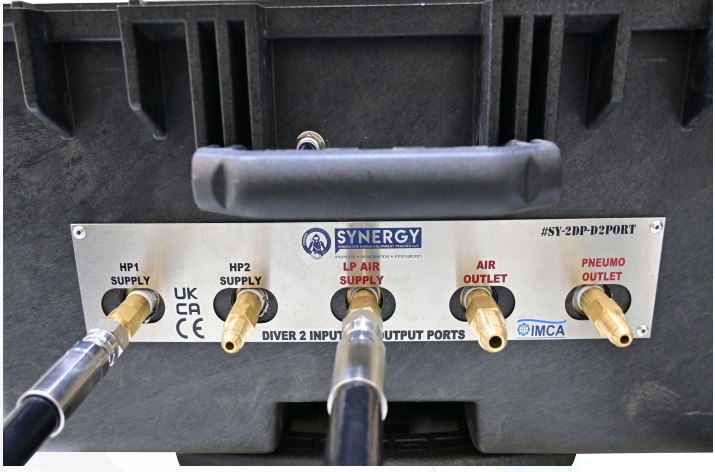
PART NO : SY-2HPC-P20L

Twin BA cylinder supply for two diver panel



TWO DIVER PORTABLE PANEL WITH TWO DIVER RADIO AND TWO DIVER CCTV ALONG WITH TWO PORTABLE 20 LTR BA COMPOSITE LIGHT WEIGHT CYLINDER IN PLEICANE CASE

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



DIVING PANEL SUPPLY FOR DIVER 1 AND DIVER 2 OUTLET FITTINGS FROM THE BACKSIDE OF THE PORTABLE CYLINDER CASE



PORTABLE PELICAN CASE FOR B.A CYLINDER REGULATOR PANEL



TWO DIVER PORTABLE PANEL WITH TWO DIVER RADIO AND TWO DIVER CCTV ALONG WITH TWO PORTABLE 20 LTR BA COMPOSITE LIGHT WEIGHT CYLINDER IN PLEICANE CASE

Information Two Diver Panel

Case	Model 1650, Black, 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

CCTV :

CCTV	Can be provided for both diver 1 and diver 2
Monitor	TFT 15.5" (splitter will be provided if both diver CCTV options are required)
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

Information Twin Portable BA / Composite Cylinder Pelican Case

Case	Box Model 1730, Black, with wheels and handle, water, rust and dust proof), Pelican USA Exterior dimensions: 37.5 x 27.1 x 14.4" / 95.3 x 68.8 x 36.6 cm Interior dimensions: 34 x 24 x 12.5" / 86.4 x 61 x 31.8 cm Weight without foam: 38 lb / 17.2 kg
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Capacity	20L-200 Bar x 2 nos
Regulator	One per pelican case to reduce Hp to Lp for diver panel
Outlet connection	Backside for both diver connection to panel

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 Rmg-3-fs

PART NO : SY-G-FLS-D



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

PART NO : SY-MS3108B-18-08P



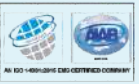
Certifications	Provided with each system
International	IMCA D023
Manufacturer	Synergy Certificates
Electrical	Continuity/Function test



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

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INSPECTION REPORT No DIBA 4.22.487.200324 BR-02 KG Revision No 0

Inspector: M. S. Synergy Innovative Diving Equipment Trading LLC Dubai, UAE
Inspection performed on: 28.03.2024
BY: M. S. Synergy Innovative Diving Equipment Trading LLC Dubai, UAE

Project: Third Party Inspection Services
IPI No (if applicable):
BY Client: M. S. Synergy Innovative Diving Equipment Trading LLC Dubai, UAE
Manufacturer/Supplier: Synergy Innovative Diving Equipment Trading LLC, Dubai, UAE
Sub-Contractor/Supplier: N/A
Inspection Location: Kuwait, Sabah
Inspection performed on: 28.03.2024
Next Inspection (if applicable): TBA

MATERIAL / SUBJECT OF INSPECTION	ITEM / TAG No	QTY	QTY Checked by Inspector
Witness of Pneumatic Over Pressure Test of Two Diver Portable Panel, High Pressure Lines @ 3300 psi & Low Pressure Lines @ 330 psi	Serial No: TRITON-656 Part No: 656	02 Nos.	02 Nos.

A - INSPECTION RESULT

Satisfactory (Without comments)
 Satisfactory with comments (Any of finding points or Non Conformity items is left open)
 Not Satisfactory (NCR raised during the inspection)

Inspection Summary (for details refer to section D)

Witness of Pneumatic Over Pressure Test of Two Diver Portable Panel, High Pressure Lines @ 3300 psi & Low Pressure Lines @ 330 psi, Serial No: TRITON-656, as per Annexure - A & Found Satisfactory.

Open Non Conformities: Yes, details in section G No
Open Points and Items: Yes, details in section G No
Release Note Issued: Yes, number(s) No
BY: M. S. Synergy Innovative Diving Equipment Trading LLC Dubai, UAE

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BY: M. S. Synergy Innovative Diving Equipment Trading LLC Dubai, UAE

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IPI No (if applicable):
BY Client: M. S. Synergy Innovative Diving Equipment Trading LLC Dubai, UAE
Manufacturer/Supplier: Synergy Innovative Diving Equipment Trading LLC, Dubai, UAE
Sub-Contractor/Supplier: N/A
Inspection Location: Kuwait, Sabah
Inspection performed on: 28.03.2024
Next Inspection (if applicable): TBA

B - REFERENCE DOCUMENTATION

Title	Reference n°	Rev.	Approval Status	Approved by	Date
Diving Equipment System Inspection Guidelines	IMCA X340	01	Approved	IMCA	July 2019
Pneumatic Over Pressure Test	SSEI-QMS-M-01	02	Approved	Synergy	May 2018

C - ATTACHEES

Name	Position	Representing
M. S. Synergy	Inspector	Synergy
M. S. Synergy	Inspector	Synergy

D - MEASURING & TESTING EQUIPMENT USED

Equipment Type	Equipment Identity n°	Last Calibration Date	Expiry Date
Pressure Gauge	110265	14.12.2023	17.12.2024

E - INSPECTION DETAILS

E1 - Details of Witness (W) & Hold (H) Inspection Points

- Manufacturing Progress Status: N/A
- Details of Inspection Activities carried out with reference to ITP:
 - Visual inspection of Two Diver Portable panel & Found Satisfactory.
 - Verified the serial No. TRITON - 656 of Two Diver Portable panel
 - Witnessed pneumatic over pressure of Two Diver Portable panel as per Annexure - A & Found Satisfactory at the time of inspection.
 - Pressure test test on pipe work, valves, fittings found satisfactory at the time of inspection.
- Continuation of certificates:
 - Verified calibration certificates of measuring instruments and found satisfactory.

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E3 - Details of Monitoring and Surveillance Points

E3 - Details of Certificate Review

F - HEALTH, SAFETY & ENVIRONMENT COMMENTS

Consent on Observations and Actions Taken During the Inspection

Carried out 2 minutes safety check test & No Safety Concerns were found at the time of inspection.

G - NON CONFORMITIES

Item	Description	Status	Raised on	Report No.	Indicate if customer punch list is provided in attachment	Closed on	Report No.	Comments
N/A								

H - PUNCH LIST ITEMS

Item	Description	Status	Raised on	Report No.	Indicate if customer punch list is provided in attachment	Closed on	Report No.	Comments
N/A								

I - DIGITAL PICTURES

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J - ATTACHEES

Item	Attachment Name	Total Pages	Description

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Annexure-01

Inspection Details:

- Witnessed Pneumatic over pressure test of Two Diver Portable panel with the following details:
 - Description: Two Diver Portable panel
 - Country of origin: U.A.E.
 - Manufacturer Serial No: TRITON 656
 - Year of Manufacture: March 2024
 - Design pressure: LP 3300 psi / HP 3300 psi
 - Test pressure: LP 3300 psi / HP 3300 psi
 - Pneumatic Test Date: 28.03.2024

Pneumatic Test:

- Pneumatic over pressure test of Two Diver portable panel (Serial No: TRITON-656) has been witnessed as per the approval procedure and found the following:
 - Test Pressure gauge calibration certificate was reviewed and found satisfactory.
 - Low Pressure of 330 psi (1.1 times of 300) was applied in the low pressure piping of Two Diver Portable panel for 30 mins, no leaks found, satisfactory at time of inspection.
 - High Pressure of 3300 psi (1.1 times of 3000) was applied in the high pressure piping of Two Diver Portable panel for 30 mins no leaks found, satisfactory at time of inspection.
 - Step release test test was performed on piping, fittings & valves, no leakage found at the time of inspection. Results satisfactory.

END OF REPORT

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Certifications

Provided with each panel

Manufacturer	Synergy Innovative Diving Equipment Trading LLC
International IMCA	IMCA D040
Class	Bureau Veritas pressure test certificates
Warranty	1 year international manufacturer warranty
Weight	50 kg

TWO DIVER PORTABLE PANEL WITH TWO DIVER RADIO AND TWO DIVER CCTV ALONG WITH TWO PORTABLE 20 LTR BA COMPOSITE LIGHT WEIGHT CYLINDER IN PLEICANE CASE

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 umblicals)
5	SY-SPIRAL WRAP	Spiral wrap (in 10 mtr lengths) (for umblical 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 TWO DIVER CCTV ALONG WITH TWO PORTABLE 20 LTR BA COMPOSITE LIGHT WEIGHT CYLINDER IN PLEICANE CASE

Contact us



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