



SYNERGY

INNOVATIVE DIVING EQUIPMENT TRADING LLC

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ISO 45001:2018 OHSMS



THREE DIVER D023 AIR PANEL - SY-3DAPD023-R-XDV



PART NO : SY-3DAPD023-R-3DV

Three Diver Air Panel with D1/D2/D3 cctv system

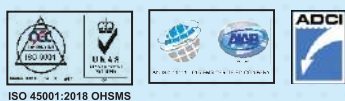


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cctv system





THREE DIVER D023 AIR PANEL - SY-3DAPD023-R-XDV

Information

Three Diver Panel

| | |
|------|--|
| Case | Model 1630, Black, Interior (27.70" L x 20.98" W x 15.50" H), with wheels and handle, water, rust and dust proof), Pelican USA Exterior dimensions: 79.45 x 61.49 x 44.39cm (31.28" x 24.21" x 17.48") Interior dimensions: 70.35 x 53.28 x 39.37cm (27.70" x 20.98" x 15.50") |
|------|--|

1 x 0-230 fsw/70 msw Depth gauge, 3.5", 0.25 % accuracy, mirror scale, with calibration point, Diver 1, Color coded **Green** 

1 x 0-230 fsw/70 msw Depth gauge, 3.5", 0.25 % accuracy, mirror scale, with calibration point, Diver 2, Color coded **Blue** 

1 x 0-230 fsw/70 msw Depth gauge, 3.5", 0.25 % accuracy, mirror scale, with calibration point, Diver 3, Color coded **Red** 

| | |
|--------------------|---|
| Air / Gas Supplies | HP Air- Independent line per diver LP Air - Independent line per diver |
| Regulator | High pressure regulator 6000 psi inlet, 400 psi outlet |
| Relief valves | 0-250 psi on regulated diver supply line, 100 psi on pneumo gauges |
| Air supply ports | All fittings provided behind the panel, with each line labelled. No hoses or connections criss crossing the front of the panel. |
| Analysis | Individual Oxygen analyzer with hi low alarm and flow meter per diver |
| Communication | Three Diver Amron Radio 2830A/11 with ac/dc power supply |
| Calibration | Inbuilt calibration points for pneumo gauges |
| Power supply | Works on 220v with 12v adapter, and on 12v battery, provided with digital amp/voltmeter to check incoming supply |

Optional :

| | |
|----------------------|---|
| Diver CCTV | Can be provided for Diver 1/Diver 2/Diver 3 |
| Supervisor CCTV | Provided with panel (optional) |
| Monitor | TFT 15.5" (splitter will be provided if diver CCTV options are required) |
| Surface control unit | Video / light control, patented design, outland/synergy design, usa |
| Primary recording | Mini Dvr with 128gb SD card per diver video or 1TB hard drive |
| Backup recording | 1 TB backup hard drive to record all diver video simultaneously |
| Usb Out | To retrieve data onto a usb memory drive from hard drives |
| HDMI Out | To mirror broadcast diving operations work via hdmi cable to remote monitor |
| Control Switches | Touch button switches with backlight for low visibility weather conditions |
| Light Control | Dimmer switch, knob type |

AMRON INTERNATIONAL - MASTER DISTRIBUTOR

SY-2830A-11 AMCOM III Three-Diver Rechargeable Portable Communicator with Outdoor AC Power Module and International Locking Power Cord



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.



AMRON INTERNATIONAL - MASTER DISTRIBUTOR

FEATURES:

- Separate channels and volume controls for each diver and tender to accommodate individual earphone and microphone adjustments, equipment variations and individual comfort levels.
- Divers' umbilicals can be set to 4-wire mode (full duplex) or 2-wire mode (push-to-talk) or any combination of the two modes for any diver.
- Ability to use both dynamic and pre-amplified diver microphones with a unique circuit that detects microphone type and automatically adjusts volume levels.
- Weatherproof push-to-talk microphone for better voice intelligibility topside. For optimum clarity, see Tech Note (below) for other recommended equipment.
- 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.

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): 5 mV
- Output Power (RMS @ 4 Ohm Load, 12 VDC): 10 Watts Audio
- Battery Life: 41 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: 17.05 Lbs. (7.73 Kg)

INCLUDED WITH COMMUNICATOR:

AMCOM™ III 2830A-11 Three-Diver Portable Communicator with AC Power, Internal Charger and Rechargeable **Battery includes:**

- (1) SY-2405-28 Amron Hand-Held Push-to-Talk Microphone
- (1) SY-2890-05 Amron 12 VDC Sealed Lead Acid Gel-Cell Rechargeable Battery with Slide terminals
- (1) SY-283XA-UM Amron Three-Diver Portable Communicator User Manual

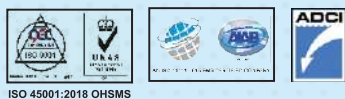
AVAILABLE OPTIONS:

- SY-2460SM-28 Amron Single Muff Operator Headset with Boom Mic and Dual Banana Plugs
- SY-2401-28 Amron Deluxe 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)

POWER CORD 6.5 FT. OPTIONS:

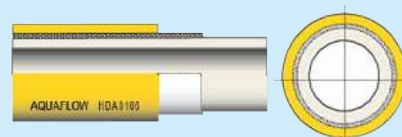
TECH NOTE:

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, use the 2405-28 Push-to-Talk Microphone, included with this model. For optimum communications, we recommend purchasing the 2401-28 Deluxe Headset with Boom Mic, topside. For tender mobility, 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 2830A-03 Three-Diver Deluxe Portable Communicator with Wireless Tender.



SYNERGY SURFACE DIVING HOSES AND UMBILICALS SY-AQUAFLOW

Known worldwide for its lightweight and ultra flexible construction, Aquaflow hoses are ideal for surface demand applications. Aquaflow kink resistant construction comprises of an extruded core tube, reinforcement of high strength yarn and a bonded outer cover. Both tube and cover are extruded from high performance thermoplastic polymers which are particularly clean and free from odors often associated with conventional rubber hoses. Coupled with the wide operating temperature range this ensures breathing gas quality is maintained under all conditions from -20°C to +66°C.



| PartNo. | Nominal Bore | | O.D. | | Min. bend radius | | Working pressure | | Nom. burst pressure | | Weight in air | | Weight in sea water | | Typical application |
|------------|--------------|------|------|------|------------------|----|------------------|-----|---------------------|-----|---------------|-----|---------------------|-----|---------------------|
| | in | mm | in | mm | in | mm | psi | bar | psi | bar | lb/ft | g/m | lb/ft | g/m | |
| SY-HDA0104 | 1/4 | 6.3 | 0.50 | 12.7 | 1.25 | 32 | 300 | 21 | 1200 | 84 | 0.078 | 116 | -0.009 | -14 | Pneumo |
| SY-HDA0106 | 3/8 | 9.5 | 0.66 | 16.8 | 2 | 50 | 500 | 35 | 2000 | 140 | 0.119 | 177 | -0.034 | -50 | Air/gas |
| SY-HDA1108 | 1/2 | 12.7 | 0.83 | 21.0 | 3 | 76 | 300 | 25 | 1200 | 84 | 0.178 | 265 | -0.054 | -80 | Hotwater |

Aquaflow Umbilicals



Lightweight, ultra flexible and kink resistant, Aquaflow Umbilicals are ideal for breathing gas supply, comms and pneumo service for surface demand umbilicals. They can be produced in production runs up to 740 meters long and can be over extruded or braided for additional protection against abrasion and use in contaminated waters.

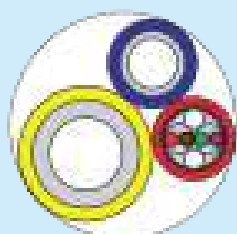
The unique materials and cabled "rope-like" construction combine to produce the most flexible, controlled buoyancy umbilicals available today. The umbilicals have no need

for tape, the repairs are much reduced and they have a longer life. They keep the professional diver safer and more efficient both while diving and on deck. They will ultimately reduce costs for the operator. The highest quality materials, workmanship with competitive pricing and unmatched service to our clients worldwide. SYNERGY invites you to visit our website or contact us directly so that we can assist you with all your Diving Umbilical needs.

SYNERGY SURFACE DIVING HOSES AND UMBILICALS SY-AQUAFLOW

SY-UDA0103

3 part surface demand



SY-UDA0204

3 part plus video



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 |
| Optical | |
| Lens | 3.6mm, Electronic-Iris |
| Focus | Fixed 4" to infinity |
| Angle of View | 70 horz. (in water) |

| 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



Locking sleeve for Rmk-5-fs

PART NO : SY-K-FLS-D

PART NO : SY-RMG-3FS



Locking sleeve for Rmg-3-fs

PART NO : SY-G-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

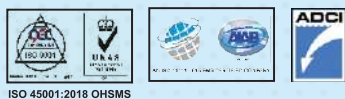
| | |
|-----------------------|---------------------------|
| Certifications | Provided with each system |
| International | IMCA D023 |
| Manufacturer | Synergy Certificates |
| Electrical | Continuity/Function test |



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 u



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CLASS WITNESS CERTIFICATES

Industry & Facilities Division
Third Party Inspection Report
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INSPECTION REPORT Nr DBA_4.20.242/IR-01 Revision Nr 0

Project: Third Party Inspection Services

BY Client: MS. Synergie Diving & Equipment Solution FZC, Dubai, UAE

Manufacturer/Vendor: MS. Synergie Diving & Equipment Solution FZC

Inspection Location: Al Qawas, Dubai

Inspection performed on: 28/06/2023

| MATERIAL / SUBJECT OF INSPECTION | ITEM / TAG Nr | QTY As per P/O | QTY Ordered for inspection |
|---|-----------------------|----------------|----------------------------|
| Three Diver Air panel - Pneumatic over inspection | Serial No. TRITON 369 | 01 No. | 01 No. |

A - INSPECTION RESULT

Satisfactory (Without comments) Satisfactory with comments (Any of trailing Punch or Note Conformity items is tick open) Not Satisfactory (NCR raised during the inspection)

Inspection Summary: (for details refer to section E)

Witness of pneumatic over pressure test of three diver air panel, High Pressure (tested:3300 psi) and Low Pressure (tested:1300 psi), Serial No.: 1001028 369, as per Annexure -A & Final calibration.

Open Non Conformities: Yes, details in section G No

Open Punch List Items: Yes, details in section H No

Release Note Issued: Yes, number(s) No

BY Traceability Stampings: Yes No

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Third Party Inspection Report
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INSPECTION REPORT Nr DBA_4.20.242/IR-01 Revision Nr 0

BY Coordinator: (Name and Signature)

BY Inspector: (Name and Signature)

BY Office: Dubai

Inspection Report Date: 28/06/2023

Attachments Report: Yes, details in section J No

B - REFERENCE DOCUMENTATION:

| Title | Reference n° | Rev. | Approval status | Approved by | Date |
|---|---------------|------|-----------------|-------------|-----------|
| Diving Equipment System Inspection Guide - Pneumatic Over Pressure Test | IMCA D020 | 01 | Approved | Synergie | July 2015 |
| | SSEL-QMS/M-01 | 02 | Approved | Synergie | May 2018 |

G - ATTENDEES

| Name | Position | BY | Representing |
|-----------------------|-------------------|----|--------------|
| Mr. Mohammed Sartaraz | Leaving Inspector | | |
| Mr. Ajay A. Soltique | QC Engineer | | Synergie |

D - MEASURING & TESTING EQUIPMENT USED

| Equipment Type | Equipment Identity n° | Last Calibration Date | Expiry Date |
|------------------------|-----------------------|-----------------------|-------------|
| Digital Pressure Gauge | AC-21 95009 | 21.01.2020 | 20.01.2021 |
| Digital Pressure Gauge | 83342 | 30.11.2019 | 29.11.2020 |

E - INSPECTION DETAILS

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

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Third Party Inspection Report
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INSPECTION REPORT Nr DBA_4.20.242/IR-01 Revision Nr 0

Manufacturing Progress Status

- NI

Details of inspection Activities carried out with reference to ITP

- Visual inspection of three diver air panel & found satisfactory
- Verified the serial No.: TRITON - 369 of three diver SSP
- Witnessed pneumatic over pressure of three diver air panel as per Annexure - A & found satisfactory at the time of inspection

Confirmation of certificates

- Verified calibration certificates of measuring instruments and found satisfactory

E2 - Details of Monitoring and Surveillance Patrols

Test if conducted during the visit

E3 - Details of Certificates Review

Test if conducted during the visit

F - HEALTH, SAFETY & ENVIRONMENT COMMENTS

(Comment on Observations and Actions Taken During the Inspection)

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

G - NON CONFORMITIES

Refer to attachment section J instead (Indicate if separate punch list is provided in attachment)

| Item | Description | Status | Raised on | Report Nr. | Closed on | Report Nr. | Comments |
|------|-------------|--------|-----------|------------|-----------|------------|----------|
| N/A | | | | | | | |

H - PUNCH LIST ITEMS

Refer to attachment section J instead (Indicate if separate punch list is provided in attachment)

| Item | Description | Status | Raised on | Report Nr. | Closed on | Report Nr. | Comments |
|------|-------------|--------|-----------|------------|-----------|------------|----------|
| N/A | | | | | | | |

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J - DIGITAL PICTURES

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J - ATTACHMENTS

| Item | Attachment Name | Total Pages | Description |
|------|---------------------|-------------|-------------------------|
| 1 | Sparging the hazard | 1 | 2 MIN SAFETY CHECK LIST |

Annexure -01

Inspection Details:

- Witnessed Pneumatic over pressure test of Three Diver air panel with the following details.

| Description | Value |
|-------------------------|-----------------------------|
| Three Diver air panel | U.A.E |
| Country of origin | U.A.E |
| Manufacturer Serial No. | TRITON 369 |
| Year of Manufacture | June 2020 |
| Design pressure | LP: 300 psi / HP: 3000 psi |
| Test pressure | LP: 1300 psi / HP: 3300 psi |
| Pneumatic Test Date | 28.06.2023 |

Pneumatic Test:

- Pneumatic over pressure test of three diver air panel (Serial No.: TRITON 369) has been witnessed as per the approved procedure and found the following

- Test Pressure gauge calibration certificate was reviewed and found satisfactory.
- Low Pressure of 1300 psi was supplied to the low pressure piping of three diver air panel for 30 mins and found satisfactory at time of inspection.
- High Pressure of 3300 psi was supplied to the high pressure piping of three diver air panel for 30 mins and found satisfactory at time of inspection.
- Soap solution leak test was performed on piping, fittings & valves, no leakage found at the time of inspection. Results satisfactory.

END OF REPORT

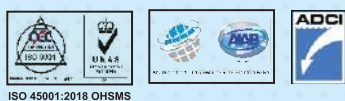
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Certifications

Provided with each panel

| | |
|---------------------|--|
| Manufacturer | Synergie certification |
| International Class | IMCA D023 |
| Warranty | Bureau Veritas pressure test certificates |
| Weight | 1 year international manufacturer warranty |
| | 68 kg |





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THREE DIVER D023 AIR PANEL - SY-3DAPD023-R-XDV

Client Optional

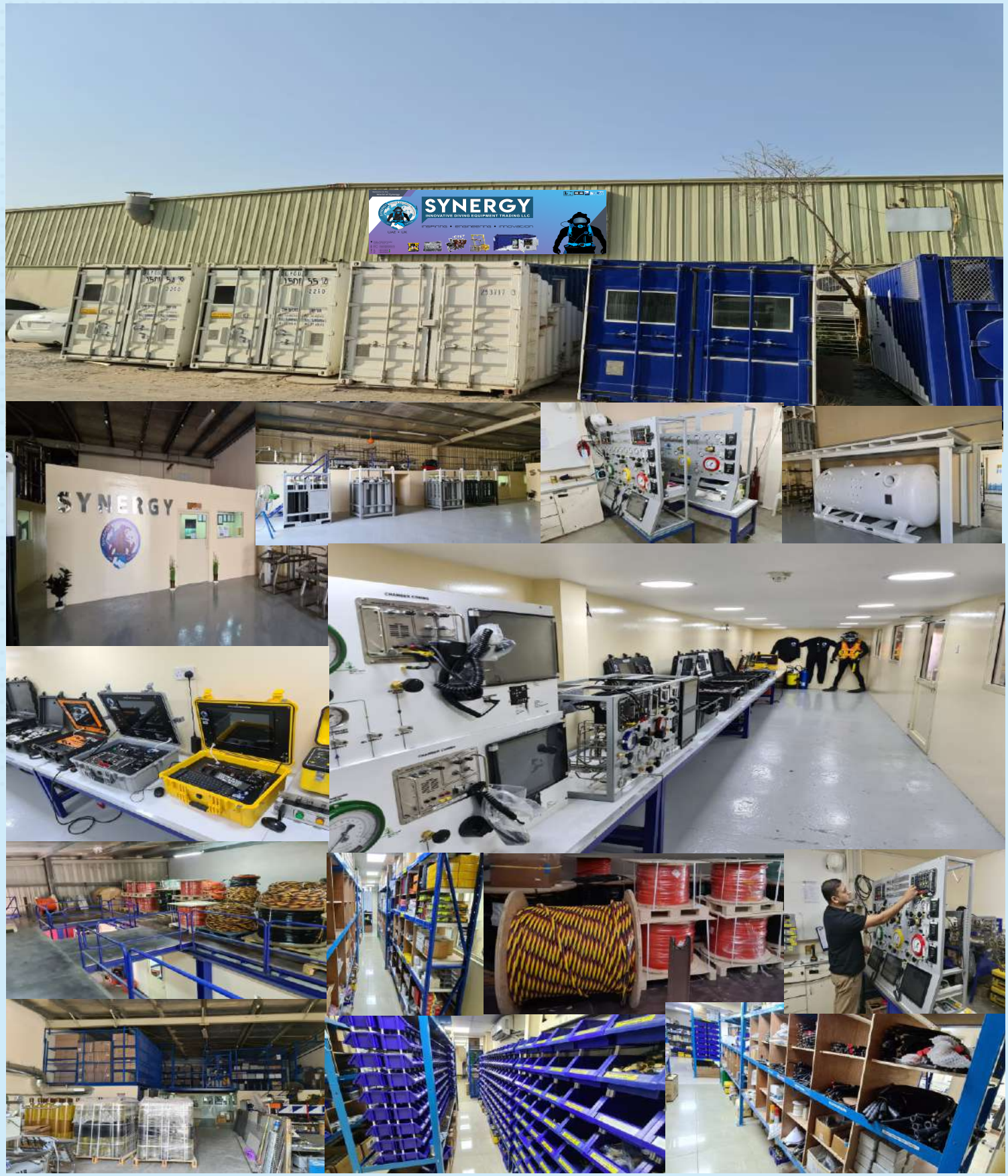
| | |
|----------|--|
| Tracking | Panels can be embossed with client logos, asset information, serial numbers etc on special request |
|----------|--|

ORDERING INFORMATION

| Sr. | Part Number | Description |
|-----|-------------------|--|
| 1 | SY-3DAPD023 | Portable three diver air panel D023 panel, offshore, imca (no radio, no diver cctv) with analyzer panel (not shown in photo) |
| 2 | SY-3DAPD023-R | Portable three diver air panel D023 panel, offshore, imca with radio ,with analyzer panel (not shown in photo) |
| 3 | SY-3DAPD023-R-1DV | Portable three diver air panel D023 panel, offshore, imca with radio, analyzer panel and diver 1 cctv |
| 4 | SY-3DAPD023-R-2DV | Portable three diver air panel D023 panel, offshore, imca with radio, analyzer panel and diver 1/diver 2 cctv |
| 5 | SY-3DAPD023-R-3DV | Portable three diver air panel D023 panel, offshore, imca with radio, analyzer panel and diver 1/diver 2/diver 3 cctv |

BESPOKE DESIGNS – ANY CONFIGURATION AS PER CLIENT REQUIREMENT

SYNERGY INFRASTRUCTURE





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THREE DIVER NITROX MIX GAS PANEL - SY-3DAPD023-R-3DV

Contact us

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