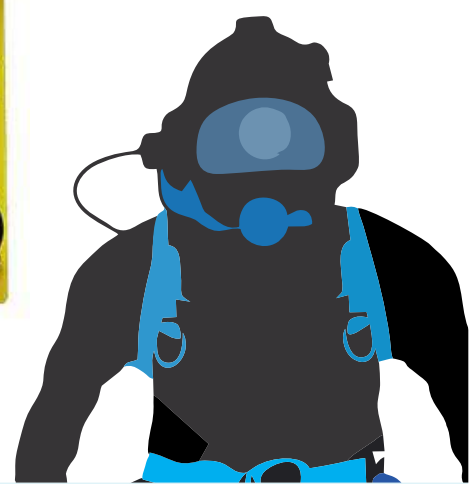


**TWO DIVER HSE AIR PANEL SY-2DAP-HSE-INSHORE**




**PART NO : SY-2DAP-HSE-INSHORE**




## TWO DIVER HSE AIR PANEL SY-2DAP-HSE-INSHORE

| Sr. | Description  |
|-----|--|
| 1   | Powder coated marine grade aluminum non rust fascia (various colors available) |
| 2   | All engraved lines with each valve/fitting/regulator clearly marked            |

### Design criteria for dive panel

|   |
|---|
| 1 x 0-164 fsw/50 msw Depth gauge, 4", 0.25 % accuracy, mirror scale, with calibration point , Diver 1, Color coded<br><b>Blue</b>  |
|---|

|  |
|--|
| 1 x 0-164 fsw/50 msw Depth gauge, 4", 0.25 % accuracy, mirror scale, with calibration point , Diver 2, Color coded<br><b>Red</b>  |
|--|

| Sr. | Part Number  | Description   | Qty |
|-----|--|---|-----|
| 1   | SY-873-400   | Aqua Environment high pressure Regulator w/gauges             | 2   |
| 2   | SY-PG-A-2.5-5000   | High pressure gauges (incoming air supply) 0-5000 psi (Hp1)   | 2   |
| 3   | SY-PG-A-2.5-5000   | High pressure gauges (incoming air supply) 0-5000 psi (Hp2)   | 2   |
| 4   | SY-PG-A-2.5-500  | Low pressure gauge (regulated air supply) 0-500 psi           | 2   |
| 5   | SY-PG-A-2.5-500  | Low pressure gauge (common low pressure supply) 0-500 psi     | 2   |
| 6   | SY-PG-A-2.5-500  | Low pressure gauge (downstream for umbilical supply pressure) | 2   |
| 7   | All air supply lines (inlet and outlet) are color coded per diver  |   |     |
| 8   | Diver 1 - Independent high pressure line                           |   |     |
| 9   | Diver 2 - Independent high pressure line                           |   |     |
| 10  | Diver 1 - Common low pressure line                                 |   |     |
| 11  | Diver 2 - Common low pressure line                                 |   |     |
| 12  | All tubing used will be stainless steel high pressure              |   |     |
| 13  | All valves for incoming air supplies will be brass , high pressure |   |     |
| 14  | All valves for regulated supplies will be brass, high pressure     |   |     |

### DIVE PANEL COMMUNICATION (Sold Separately)

| Sr. | Part Number | Description                          | Qty |
|-----|-------------|--------------------------------------|-----|
| 1   | 2820A-11    | Amron 2 diver radio with ac/dc power | 1   |
| 2   | 2405-28     | Push to talk microphone              | 1   |

### DIVE PANEL DIVER CCTV SYSTEMS (Sold Separately)

| Sr. | Part Number           | Description  | Qty |
|-----|-----------------------|--|-----|
| 1   | SY-DIVERVISION SERIES | Diver 1/Diver 2, surface control unit, Synergy/Outland Technology  | 2   |
| 2   | SY-MON-15.5-TFT       | Diver 1/Diver 2, 15.5"waterproof TFT monitor   | 1   |
| 3   | SY-DVR-1TB-HD         | Primary Recorder, 1 TB hard drive (simultaneous recording of all diver)  | 1   |
| 4   | SY-DVR-1TB-HD         | Backup recorder (black box) 1 TB hard drive (simultaneous recording of all dives), USB out for recording to USB sticks, HDMI out for mirror image to be displayed remotely via HDMI cables | 1   |

**TWO DIVER HSE AIR PANEL SY-2DAP-HSE-INSHORE**

**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.

## TWO DIVER HSE AIR PANEL SY-2DAP-HSE-INSHORE

**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.



# TWO DIVER HSE AIR PANEL SY-2DAP-HSE-INSHORE

|                       |  |
|-----------------------|--|
| Diving panel          | Bureau Veritas   |
| Imca                  | D018 / D023  |
| Class                 | Bureau Veritas pressure test witness for entire system |
| Fmea                  | As built by Synergy                                    |
| Fmea stamped by class | As built by Synergy and reviewed by Class (optional)   |
| Warranty              | One year Synergy manufacturing warranty                |

Industry & Facilities Division  
Third Party Inspection Report  
Page 2 of 6

INSPECTION REPORT NO: IFA.A.11.01748.01 Revision No: 0

Project: Third Party Inspection Services  
By Client: Mr. Synergy Diving & Equipment Services POC: David J. O'Connell  
Manufacturer/Supplier: Mr. Synergy Diving & Equipment Services POC: David J. O'Connell  
Inspection performed on: 13/01/2023

MATERIAL / SUBJECT OF INSPECTION: Two Diver Air Panel (Type: HSE) (Serial No: 1817048002) (Qty: 01 No.)

INSPECTION RESULT: Satisfactory with comments (Key of testing Points or Non-Conformity items to be used)

INSPECTION SUMMARY: The use of witness stamps is forbidden in the form of 2 party services where client cooperation and attendance must be used.

Industry & Facilities Division  
Third Party Inspection Report  
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INSPECTION REPORT NO: IFA.A.11.01748.01 Revision No: 0

BY Inspector: [Signature] BY Coordinator: [Signature]

Checklist: [Table with columns: Item, Reference ID, Rev, Approval Status, Approved By, Date]

ATTACHMENTS: [List of attachments]

MEASURING & TESTING EQUIPMENT USED: [Table with columns: Equipment Name, Equipment ID, Last Calibration Date, Expiry Date]

INSPECTION DETAILS: Details of witness tags & Final HSE Inspection Passes

Industry & Facilities Division  
Third Party Inspection Report  
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INSPECTION REPORT NO: IFA.A.11.01748.01 Revision No: 0

Manufacturing Progress Status: [Table with columns: Item, Description, Status, Reason for Report, Report No, Cause No, Comments]

HEALTH, SAFETY & ENVIRONMENT COMMENTS: Control of Chemical safety check (All No. Defect Concerns were found at the time of inspection)

NON-COMPLIANCE: [Table with columns: Item, Description, Status, Reason for Report, Report No, Cause No, Comments]

INSPECTION ITEMS: [Table with columns: Item, Description, Status, Reason for Report, Report No, Cause No, Comments]

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INSPECTION REPORT NO: IFA.A.11.01748.01 Revision No: 0

DIGITAL PHOTOS: [Grid of 4 photos showing the air panel components]

INSPECTION POINTS (HSE PASS): [Table with columns: Description, Photo, Status]

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INSPECTION POINTS (HSE PASS): [Table with columns: Description, Photo, Status]

INSPECTION POINTS (HSE PASS): [Table with columns: Description, Photo, Status]

Industry & Facilities Division  
Third Party Inspection Report  
Page 4 of 6

INSPECTION REPORT NO: IFA.A.11.01748.01 Revision No: 0

PHOTO: [Image of the air panel being inspected]

ATTACHMENTS: [Table with columns: Item, Attachment Name, Total Pages, Description]

INSPECTION POINTS (HSE PASS): [Table with columns: Description, Photo, Status]

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INSPECTION REPORT NO: IFA.A.11.01748.01 Revision No: 0

INSPECTION DETAILS: Annexure - II

WHATSAPP PRESENTATION: [Table with columns: Description, Quantity of units, Manufacturer, Year of Manufacture, Design pressure, Test pressure, Inspection Date]

PNEUMATIC TEST: [List of test points and results]

END OF REPORT


**ORDERING INFORMATION**

| Sr. | Part Number             | Description   |
|-----|-------------------------|---|
| 1   | SY-2DAP-HSEINSHORE-PCSF | TWO DIVER AIR PANEL, INSHORE, IN PELICAN CASE, FITTINGS ON EITHER SIDE OF PANEL             |
| 2   | SY-2DAP-HSEINSHORE-FMTF | TWO DIVER AIR PANEL, INSHORE, FRAME MOUNTED, INLET AND OUTLET FITTINGS FROM TOP OF PANEL    |
| 3   | SY-2DAP-HSEINSHORE-FMBF | TWO DIVER AIR PANEL, INSHORE, FRAME MOUNTED, INLET AND OUTLET FITTINGS FROM BOTTOM OF PANEL |

**BESPOKE DESIGNS – ANY CONFIGURATION AS PER CLIENT REQUIREMENT**

**TWO DIVER HSE AIR PANEL SY-2DAP-HSE-INSHORE**

# Contact us

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