



PART NO : SY-3DAP-D040-SC-SRP-X-XXX

Design

- All Stainless Steel 316 construction, four diagonal lifting points with ringed pad eyes and fork lift slots.
- Dedicated lifting slings, certified, provided with SRP
- 6 X 50 LTR X 200 BAR Steel cylinders
- State of the art dive panels, fully engraved, color coded per diver, built into a waterproof, dust proof , unbreakable Pelican case
- Built to utilize 3 x 100 mtr / 150 mtr / 200 mtr diving umblicals.
- Various options Inbuilt radio, inbuilt CCTV systems for diver 1, diver 2, diver 3
- 12v battery pack to run the video systems
- High pressure air hoses with ss fittings from cylinders to dive panel
- Bespoke panels can also be supplied, with client company logo, asset number etc printed on the system
- The system is supplied with complete certification package as per IMCA guidelines and class witness certification

DESIGN for Mobile/Portable Surface Supplied Systems IMCA D040

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THREE DIVER SCUBA REPLACEMENT PACKAGE (SRP) WITH STEEL CYLINDERS # SY-3DAP-D040-SC-SRP-X-XXX



TECHNICAL DATA SHEET:

Frame Dimensions

Umbilical Hook	55 cm (550mm)
Construction	316 Stainless Steel (mirror finish)
SRP complete unit	2200mm (L) x 1700mm (H) x 1350mm (W)
Ringed Pad Eye	100mm (H) x 100mm(W) x 30mm (T) (with ring)
Pad eye design	DNV 2.7-1

Optional Extras

Wheels	Bolted wheels for easy transport				
DC power	Battery pack 12v complete with fast charger				
	in water proof junction box and battery leads				







THREE DIVER PORTABLE PANEL - SY-3DAP-D040-X-XXX



PART NO : SY-3DAP-D040-R-2DV

Three diver panel with radio and diver 1 / diver 2 cctv system







PART NO : SY-3DAP-D040-R-1DV

Three diver panel with radio and diver 1 cctv

PART NO: SY-3DAP-D040-R

Three diver panel with radio

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DIVING PANEL WITH D1/D2/D3 INLET FITTINGS (AIR SUPPLIES HP/LP) ON LEFT SIDE AND D1/D2/D3 OUTLET FITTINGS (TO DIVER) ON RIGHT SIDE



DIVING PANEL WITH D1/D2/D3 INLET (HP/LP) AND OUTLET FITTINGS (TO DIVER) FROM THE BACKSIDE OF THE PANEL









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)

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 Supplies	HP - 3 independent supplies, one per diver, LP – 3 independent supplies, one per diver
Communication	Amron 2830A-11 Three 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	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	All fittings provided from behind the panel for inlets and outlets
Calibration	Inbuilt calibration points for pneumo gauges

Optional :

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	1 TB backup hard drive to record all diver video simultaneously
up recording	

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Emergency panel provision – extra protection for diver safety



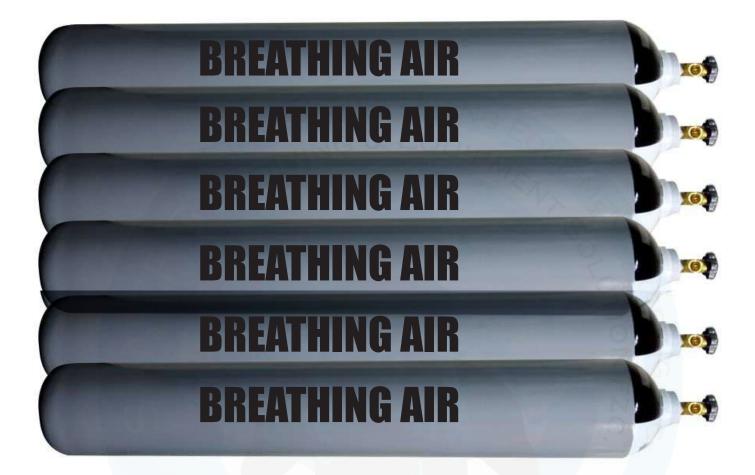
	Eventuation of Depend
Information	Emergency Panel
Cylinder Charging	HP charging valve/Gauge
Regulator	HP regulator, inlet 6000 psi Outlet 400 psi
Supplies to Dive Panel	D1/D2/D3 HP valves/Gauges
Regulated Supply	D1/D2/D3 LP valves/Gauges
Connections	Valves/fittings/piping from cylinders to panel

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THREE DIVER SCUBA REPLACEMENT PACKAGE (SRP) WITH STEEL CYLINDERS # SY-3DAP-D040-SC-SRP-X-XXX

Breathing Air Cylinder Specification



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Cylinder	IL1.50.229.200
Manufacturing Standard	ISO 9809-1
Dimensions	229mm OD x 1480 mm Length x 50.0 ltrs
Material	34CrMo4
Manufacturing Process	Hot Spinning of Seamless Steel Tubes
Heat Treatment	Hardened Quenched and Tempered
Working Pressure	200 bar
Hydraulic Test Pressure	300 bar
Minimum Burst Pressure	480 bar
Volumetric Capacity (nominal)	50 Litres
Nominal Gas Capacity	10 cu.m (Approx)
Cylinder Outside Diameter (+_1%)	229mm
Cylinder Length (without valve (+_20MM)	1470mm (Approx)
Tare Weight (+_5%)	54 kg (Approx)
Gas Application	Breathing Air
Neck Thread Specification	25E as per EN-629
Valve	Handwheel Operated Valve with BS3 Outlet
External Finish	Powder coated as per Gas Color Code for Breathing Air Grey (RAL 7037)





ACCESSORIES



PART NO : SY-SRP-3DAP-D040-SC-SRP-X-XXX





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.

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.



SY-2830A-11 AMCOM III THREE-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: 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:

SY-2830A-11 AMCOM III Two-Diver Rechargeable Basic Portable Communicator with Outdoor Power Module and International Locking Power Cord 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)

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, 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.

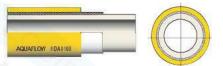
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Known worldwide for its lightweight and ultra flexible construction, Aquaflow hoses are ideal for surface demand applications. Aquaflow kink resistant construction comprises of an extruded core tube, reinforcement of high strength yarn and a bonded 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.





Part No.	Nom Bo	ninal ore	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	0.51	12.9	1.3	32	300	21	1200	84	0.078	116	-0.013	-20	Pneumo
SY-HDA0106	3/8	9.5	0.69	17.4	2	50	500	35	2000	140	0.128	190	-0.036	-54	Air/gas
SY-HDA1108	1/2	12.7	0.813	20.7	3	76	300	25	1200	84	0.200	298	-0.038	-56	Hot water

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



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Diving Umblical with protective outer sheet





Diving Umblical without protective outer sheet





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



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



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

PART NO: SY-UWL-401

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





Connector	SY-RMK-5-FS
Туре	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

SY-RMG-3-FS
3 Female Sockets
18 in Pigtail of 18 SO AWG Cable
Special Neoprene, Molded
Copper Alloy, Hard Gold Plated per
SY-ASTM-B-488
600 VDC
Up to 20,000 psi
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

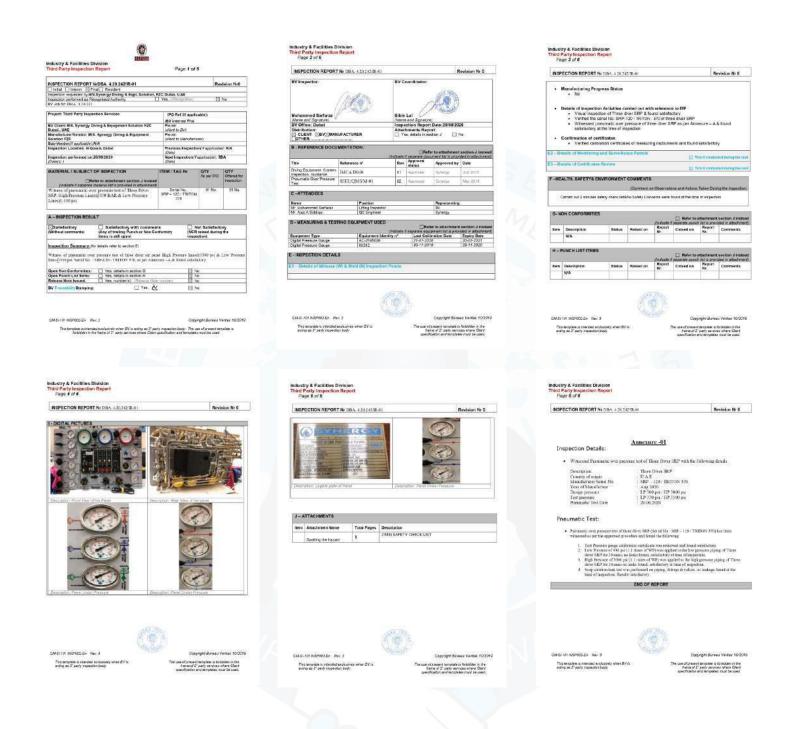
Cannon Right Angle Amphenol Connector is used for connecting the video camera umbilical to the surface video console unit.

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CLASS WITNESS CERTIFICATES



Certifications

Provided with each panel

Manufacturer	Synergy certification
International	IMCA D040
Class	Bureau Veritas pressure test certificates
Warranty	1 year international manufacturer warranty
Weight	Frame only : 160 kgs
Weight	Frame with cylinders, panel, umblicals and bandmasks : 600 kgs





THREE DIVER SCUBA REPLACEMENT PACKAGE (SRP) WITH STEEL CYLINDERS # SY-3DAP-D040-SC-SRP-X-XXX

ORDERING INFORMATION

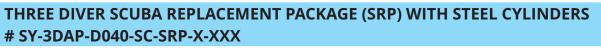
Sr.	Part Number	Description
1	SY-3DAP-D040-SC-SRPX-XXX	Three diver scuba replacement panel with ss frame, emergency panel, 6 x 50 ltr x 200
		bar breathing air steel cylinders, all plumbing with fittings , valves, hoses to connect
		from cylinders to diving panel (diving panel not included, please choose from panel
		options below)

Sr.	Part Number	Description
1	SY-3DAP-D040-SF	Portable three diver panel, offshore, imca (no radio, no diver cctv), side inlet and
		outlet fittings
2	SY-3DAP-D040-BF	Portable three diver panel, offshore, imca (no radio, no diver cctv), back inlet and
		outlet fittings
3	SY-3DAP-D040-R-SF	Portable three diver panel, offshore, imca with radio (no diver cctv), side inlet and
		outlet fittings
4	SY-3DAP-D040-R-BF	Portable three diver panel, offshore, imca with radio (no diver cctv), back inlet and
		outlet fittings
5	SY-3DAP-D040-R-1DV-SF	Portable three diver panel , offshore, imca with radio and diver 1 cctv, side inlet and
		outlet fittings
6	SY-3DAP-D040-R-1DV-BF	Portable three diver panel , offshore, imca with radio and diver 1 cctv, back inlet and
		outlet fittings
7	SY-3DAP-D040-R-2DV-SF	Portable three diver panel, offshore, imca with radio and diver 1 and diver 2 cctv,
		side inlet and outlet fittings
8	SY-3DAP-D040-R-2DV-BF	Portable three diver panel, offshore, imca with radio and diver 1 and diver 2 cctv,
		back inlet and outlet fittings

Sr.	Part Number	Description
1	SY-2830A-11	Amcom iii three-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









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