TM rosette components, supplier and costs (Feb 2003)

General Oceanics

(some components ultimately from other suppliers, e.g. cable from Cortland

Number 12	Item # 108012T	Description GO-FLO BOTTLE,12L TEFLON COATED	Price ea 1599		Total 19188	
CLOSE-OPEN-CLOSE MECHANISM 12L WITH TEFLON COATING Sample valves specified by customer 04/16/03 12 0 1599.00						
1	4041-1I	NYLATRON COUNTERBALANCED BLOCK,	1M 7926		7926	
	LIGHT DUTY, INSTRUMENTED, LOAD RATING OF 6,600 lbs. BENDING RADIUS 6.26" (15.9cm). FOR USE WITH POWER SUPPLY & READOUT					
1	4048 3806	READOUT,HYDROBLOCK		3806		
READOUT FOR 4000 SERIES BLOCKS, CABLE OUT METERS, CABLE RATE M/MINUTE, CABLE END WARNING 100,10, 0 METERS, WATER TIGHT CASE, READABLE IN FULL SUN						
1	4048PM	POWER SUPPLY, BLOCK/READOUT 4000	1214		1214	
1	4040IC30M	CABLE,HYDROBLOCK,30M	1800		1800	
INTERCONNECTING CABLE BETWEEN THE BLOCK AND THE POWER SUPPLY.						
1 1 RMG-2-	23200IELBX TERM-KEV32 FS-WOC ELECTI	SLIP RING ASSEMBLY IEL-BX-04 TERMNATION,KV2932 Cable W/Thimble & RO - MECHANICAL TERMINATION	1500 Molded 1498		1500 1498	
1	10150MSX2A WITH SPECIAL I	MS EXTENSION 40"D X 10"H EPOXY COATING ON STAND AND HARDWA	1775 .RE		1775	
1 C1015-SB-2 COUPLING CLAMP,SEA-BIRD 1481 1481 COUPLING CLAMP FOR A SEA-BIRD CTD TO BE SAFELY MOUNTED TO THE G.O. ROSETTES IN VERTICAL POSITION. Holds CTD in vertical position below the Rosette. A mount stand extension is necessary to provide clearance.						
1	CH-TR5025	CHANNEL, Bracket for Fluorometer	355	355		
1	AP22-24	ADAPTOR PLATES,5 THRU 12L	9190		9190	
1	HG22-12	With epoxy coating HANGER,LARGE With epoxy coating	466		466	

1	1101512MS2D	MOUNT STAND 12P, 12L, H 33" D 40" with epoxy coating	1980	1980
1500	CABLE38/4	Cable38 Kevlar 4 Conductor 18Awg Kevlar 29	6975	6975

4 Conductor, twisted pair #18AWG, braided 29/12 x 1500 denier, polyurethane jacket, breaking strength 6300 lbs (2864kg) dia .38" , Weight 50 lbs/ 1000 ft. min bending radius 4" to 6" depending on load, resistance 38 Ohms per 1M/FT

Total = 81119.00

Seabird

1	9plus	1	UNDERWATER UNIT for 911plus CTD - Includes modular Temperature and Conductivity sensors with TC Duct, SBE 5T submersible pump, redundant T and C input channels, 8 differential input, low passfiltered A/D channels, stainless steel guard cage, SEASOFT software, and complete documentation.	25,800.00	25,800.00
1a	9-1a	1	Aluminum housing, 6800 meter depth rating	.00	.00
1b	9-2d	1	0-10,000 psia (6,800 meters) pressure sensor	.00	.00
1c	9-4	1	300 baud modem module for water sampler control	700.00	700.00
1d	9-5	1	Control module for GO 1015 water sampler, includes interface cables (requires option 9-4)	760.00	760.00
1e	9-6	1	SBE 43 Dissolved Oxygen Sensor, 7000 meter (cable and mount included)	4,100.00	4,100.00
2	24258	1	WET Labs Titanium Analog Chlorophyll fluorometer (eco-flrtd), 6000 meter	3,800.00	3,800.00
2a	50213	1	ECO (or Turner or Seapoint) Fluorometer Mount Kit - SBE 9	75.00	75.00
2b	171485	1	60" cable, ECO-AFL to 9plus	150.00	150.00
3	11plus	1	DECK UNIT for 911plus CTD - Includes IEEE-488 and RS-232 interfaces, NMEA 0183 GPS interface, A/D input channel for Surface PAR reference sensor, ASCII serial data output port, CTD pressure signal output, audible bottom contact alarm, audio tape interface, 115/230 VAC (switchable) input power, AC power cord, serial data cable, rack mount kit, and complete documentation.	5,300.00	5,300.00
3a	11-1	1	300 baud modem module for water sampler control	500.00	500.00

4	50088	1	SEASPARES, SBE-9Plus support kit	850.00	850.00
			containing spare sensor cables, connectors,		
			hardware, O-rings, clamps, tubing, fittings,		
			anodes, etc.		
5	90409	1	12 position Carousel electronics/release,		9,500.00
			6800 meter, with interface for SBE 911plus	9,500.00	
			or AFM		
5a	90247	1	SBE 32 Hub Assembly (use when	900.00	900.00
			retrofitting existing G.O. pylons)		
5b	50111	1	SBE 32 Carousel 12 position lifting bail	250.00	250.00
			assembly		
			Total (FOB Factory)		52,685.00
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Total cost of package 52,685+81,119 = \$133,804

This does not include a winch (we bought a SeaMac via GO for ~\$21,000, it was useless and we returned it)

These prices do not include a few bottle modifications we made:

We had different air vents installed (so we could connect to a compressed air supply) and also had different drain taps installed (for filtering systems). We also had the back posts drilled out to accommodate the 0.38" wire. This was for a worst-case scenario where we mount the bottles on the Kevlar and trip them with messengers. (We have never had to do this, but it was fairly cheap to get this done)

Things I would change if I did it again:

Buy the system through Sea-Bird, General Oceanics are very unreliable, particularly when it comes to shipping.

I think Sea-Bird can fit Go-Flo bottles to a Sea-Bird frame, if they can I would go that route.

Do not epoxy coat the frame, instead get it powder coated by a commercial outfit. We have had this done to ours (I used Eldorado in San Diego) and the coating is holding up very well (~300 deployments and still intact). If I did this again I would choose white for the colour-easier to see as it surfaces)

Find a different supplier for the block, cable and readout. I think the GO pricing is really outrageous--particularly the power supply and the cable from the block.

Make your own recovery hooks and have them powder coated.

Last modified August 20th, 2007