

GENERAL SPECIFICATION FOR NAVOCEANO SYSTEMS - PX-15 GULF STREAM DRIFT MISSION

SYSTEM DESCRIPTION					PHYSICAL CHARACTERISTICS			PERFORMANCE CHARACTERISTICS			OPERATIONAL REQUIREMENTS		
SYSTEM	SUBSYSTEM	FUNCTION	OPERATIONAL MODE	DISPLAY/RECORDING	SIZE (INCHES)	WEIGHT (LBS.)	C.G.	OPERATING RANGE	SENSITIVITY	FREQ.	POWER SUPPLY	OUTPUTS	LEADS/CABLES
WATER SENSOR POD (Bisset Berman)	EXTERNAL SENSOR UNIT	SENSE: Salinity Temp. Pressure Sd. Vel.	CONTINUOUS <u>ALL DEPTHS</u>	N.A.	18"x7" diam CYLINDRICAL	80 lb/AIR 63 lb/WATER		S/ 30-40 ppt T/ 2-35°C D/ 0-2000m SV/14-16K m/sec	± 0.03 ppt ± 0.02°C 0.25% Full Scale ± 0.3 met/sec	N.A.	FROM RECORDER/LOGIC UNIT	TO RECORDER/LOGIC UNIT	6 CONDUCTOR
	RECORDER & LOGIC UNIT	SCALING, DIGITIZING RECORDING OF DATA	CONTINUOUS <u>ALL DEPTHS</u>	MAGNETIC TAPE NEED VISUAL DISPLAY	2 UNITS 19x7x12	60 pounds	N.A.	N. A.	N. A.	N.A.	4 wts. 24 to 32 VOC must be floating w/respect to chassis	N.A.	
MAGNETO-METER (VARIAN) (TYPE-V-4937)	EXTERNAL SENSOR UNIT	SENSE: Earth's Magnetic Field & Local Anomolies	CONTINUOUS <u>ALL DEPTHS</u>	N.A.	20" CYLINDRICAL	~ 20 pounds		20K to 100 K Gomma	± 1 gamma		FROM RECORDER UNIT	TO RECORDER UNIT	SHIELDED 2-COND. should not run parallel to other power signal cable
	RECORDER/POWER SUPPLY	RECORD DATA	CONTINUOUS <u>ALL DEPTHS</u>	PAPER TAPE ANALOG	24x24x27	~ 150 pounds	N.A.	N.A.	N.A.		105-125 VOLT 50/60Hz 3.5a	N.A.	
TRANSMI-SSOMETER (HYDRO PRODUCT 412-T)	EXTERNAL SENSOR	SENSE: Extinction of Light	CONTINUOUS ON DEMAND <u>ALL DEPTHS</u>	N.A.	60"x5" (15" fins) CYLINDRICAL	22 lb/AIR		ALPHA 0.1 to 2.2 per meter	± 2% for 75% Sample	N.A.	FROM RECORDER UNIT	N.A.	3-cond 3 pin M/M Plug
	RECORDER	RECORD DATA	CONTINUOUS ON DEMAND <u>ALL DEPTH</u>	Taut Band Meter-Manual (Possible Mag.Tape)	12x8x7	8 pounds	N.A.	N.A.	N.A.	N.A.	SELF CONTAINED 7000 hrs. on B Cell	N.A.	N.A.

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CURRENT SENSOR (BISSET BERMAN)	EXTERNAL SENSOR	SENSE: CURRENT DIRECTION & VOLOCITY	CONTINUOUS ON DEMAND ALL DEPTHS	N.A.	10x27 CYLINDRICAL	20/AIR		0.1 to 6.0 Knots 0-360°	± 2 % ± 2 %	N.A.	FROM RECORDER 16.8 vdc 2.5 ma	N.A.	6 Cond. m/marine
	DISPLAY POWER SUPPLY	DISPLAY	CONTINUOUS ON DEMAND ALL DEPTHS	Taut-Band Meters MANUAL RECORDING	8x8x9	8 pounds	N.A.	N.A.	N.A.	N.A.	SELF CONTAINED 16.8 vdc merc. cell #E 133	N.A.	N.A.
35 mm CAMERA (EG&G)	Two 35 mm CAMERAS (#207 A)	BOTTOM STEREO-PHOTOGRAPHY	CONTINUOUS OR MANUAL ON DEMAND BOTTOM ONLY	3300 EXPOSURES Thin base Film	31x9 CYLINDRICAL	70/AIR 15/WATER		f/1.5 to f/22 1/10 to 1/200 sec.	N.A.	MAX 3 SEC rep. rate	24-32 vdc 0.7 amps 2 watts at 3 sec. rep. rate	N.A.	4 Cond. Cable
	TWO STROBES #208	ILLUMINATION FOR STEREO-PHOTOG.	CONTINUOUS OR MANUAL ON DEMAND BOTTOM ONLY	N.A.	32x5 7" REFLECTOR CYLINDRICAL			N.A.	N.A.	MAX 3 SEC rep. rate	20-32 vdc 10 a/min	250 WATTS/SEC	3 Cond. CABLE
	CONTROL BOX	SYNCHRONIZE CAMERA & STROBE At Sel. Rep. Rate	ON DEMAND BOTTOM ONLY	COUNTER out-of-film Ind. Camera Selector rep. rate	11x8x4	10	N.A.	N.A.	N.A.	MAX 3 SEC rep. rate	24-32 vdc Regulated		
70 mm CAMERA	(Two) 70 mm CAMERAS (OEC MOD. 750)	GEOL. & BIOLOGIC PHOTOG.	ON DEMAND ALL DEPTHS	500 Exposures	24x8 CYLINDRICAL	35/AIR 25/WATER		f/2.8 to f/16. B to 1/125 1.5 to 20 ft.	N.A.	MAX 4 SEC rep. rate	24 vdc Less 3 Amps	N.A.	OEC 53 F 8 m and OEC 53 F 2 m. 6 Cond. CABLE
	STROBES OEC. PE 780	ILLUMINATION for/70mm	ON DEMAND ALL DEPTHS	N.A.				N.A.	N.A.	MAX 4/sec rep. rate			

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SIDE-SCAN SONAR EG&G	TRANS-DUCER MODEL #269	SONAR SOUND SOURCE	CONTINUOUS ON DEMAND BOTTOM ONLY	N.A.	40x6	40/AIR ~5/WATER		N.A.		300Khz for 40 MICRO SECONDS	FROM RECORDER	110db (1μ bar at 1 yard	Over all shield w/2# 20 shielded 4#18 single Cond. m/m RM&SFS
	RECORDER MOD. 259A	POWER SUPPLY, DRIVER/RECEIVER, CONTROL RANGE SELECT. RECORDER	CONTINUOUS ON DEMAND BOTTOM ONLY	AUTOMATIC MANUAL EVENT Mk. PAPER ANALOG.1-3"/7x16x37 Minute(Poss. Mag. Tape)	11x16x37 MAX COVERED UNCOVERED	100	N.A.	250,500, 1000 ft. OR 150,300, 600 Ft.	0.4% FULL SCALE	N.A.	200 Wts. 28 vdc 3 sec-300w Surge when turned on	N.A.	2# 12 CONDUCTOR SHIELDED
SUB-BOTTOM PROFILER	TRANS-DUCER	SOUND SOURCE	CONTINUOUS ON DEMAND BOTTOM ONLY	N.A.	6x20 dia Cylindrical					3.5 or 5.0 kHz	FROM RECORDER		
	RECORDER	POWER SUPPLY RECORDER	CONTINUOUS ON DEMAND BOTTOM ONLY	AUTOMATIC PAPER ANALOG (Poss. Mag. Tape)	11x18x33		N.A.		~18"	N.A.	200 Watts at 28 vdc	N.A.	
EXPENDABLE BT	EXTERNAL SENSOR	PROFIVE PROFILE OF TEMP VS DEPTH	ON DEMAND (DEPTH RESTRICTED)	N.A.	NEEDS RE-DESIGN	~3 pounds		28° to 96 F	±0.36°F	N.A.	N.A.	N.A.	1
	RECORDER (SIPPICAN Type MK 2A1)	RECORD & DATA CONDITIONING	ON DEMAND (DEPTH RESTRICTED)	PAPER ANALOG	13x14x13	36 lbs.	N.A.	28° to 96° F	±0.36°F	90 sec recycle time required	12Cv 60 kHz± 50%-1 Phase 25 watts	N.A.	2 Cond. Power Cable