

PRICE SHEET



COMDYNA, Inc.

COMPUTERS FOR DYNAMIC ANALYSIS

Each Comdyna analog/hybrid system included herein is priced by adding options and features to a basic configuration. Details are organized in work sheet format with information to aid the tabulation of unit and extended prices.

WARRANTY

All products are covered by a one year warranty. In the event of an operational defect, the product will be repaired by either replacing the defective part, or repaired at the factory, at no cost, providing the defect is not the result of abuse. The warranty covers defects in workmanship and all electronic malfunctions.

SEVEN DAY CONSIGNMENT-EVALUATION PURCHASE

Purchase orders may be accepted on a seven day consignment-evaluation basis. On this basis, one standard system will be consigned to the purchaser for a seven day evaluation period. After the seven day period, the product is either accepted or returned and the purchase order cancelled. Consignee is to be responsible for the unit's safekeeping during the period and for shipping charges. To be effective, the purchase order must state "Seven Day Consignment-Evaluation."

DESCRIPTION	QTY	UNIT	EXT
7000 ANALOG/HYBRID COMPUTING SYSTEMS			
PRIMARY SYSTEM			
Primary Chassis <i>inc. wired, rack mountable chassis, 7117 power supply for 1-4 units, 7976 Interface Network, 7986 Control Unit.</i> (1 per 7000 system)	1 ea.	\$1230 _____
7118 High Current Power Supply (5-8 units)	add ...	1 ea.	75 _____
Analog/Digital Converter, 7093 <i>12 bit resolution w/8 bit DAC curve generator.</i> (1 per system)	optional ...	1 ea.	345 _____
Microcomputer Interface: (1 per system)	...		150 _____
Board and cable for IBM PC.	...		cf _____
Board and cable for other models. (consult factory)	...		cf _____
Modification for 7905 AD/DA Board <i>inc adding a connector to the primary chassis and wiring for mode control and time scale operation, AD/DA trunks.</i>	optional ...	1 ea.	135 _____
COMPUTING UNITS			
GP-10 Basic Unit <i>inc. wired chassis, 7979 Control & Address Grp, 2 ea. 911 Quad Amp Grps, patch cord set.</i> (1-8 per system)	quantity ...	__ ea.	1165 _____
Integrating Capacitor Grp, 7170 <i>inc. 1:1, 10:1, 400:1, 4000:1 time scale capacitors and time scale relay for each GP-10.</i> (1 per GP-10)	optional ...	__ ea.	280 _____
Dual Multiplier Networks 982/1, 1.0%, or	...		175 _____
982/5, 0.5%, or	...		285 _____
983/1, 0.1% (1 per GP-10*)	optional ...	__ ea.	395 _____
*Note: Additional dual multiplier networks may be added. (consult factory)	add ...	__ ea.	cf _____

DESCRIPTION	QTY	UNIT	EXT
GP-10 ACCESSORY FUNCTIONS			
(See Accessories and General Options.)			
MULTIPLYING DIGITAL/ANALOG CONVERTERS			
Patch Panel Chassis, 796C <i>inc. chassis, patch panel and plug-in connections for two 796A MDAC board assemblies.</i> (virtually no limit of the number per system)	quantity ...	ea.	325 _____
Eight Channel Board, 796A <i>twelve bit resolution, set from 7976 Interface Board.</i> (1-2 per 796C)	quantity ...	ea.	795 _____
GP-6 DESK TOP ANALOG COMPUTER			
Standard Basic Unit <i>inc. four integrator amplifiers, eight total; slow time and repetitive operation feature, digital voltmeter, 982/1 dual multiplier network, patch cord set and microcomputer interface connector.</i>	quantity ...	ea.	2045 _____
Alternate dual multiplier, 982/.5, 0.5% accuracy, or	...		110 _____
Alternate dual multiplier, 983/1, 0.1% accuracy. (1 per GP-6)	add ...	ea.	220 _____
Cassette Training Program, 101.	quantity ...	ea.	55 _____
Tutor Cassette Player, 615.	quantity ...	ea.	95 _____
MICROCOMPUTER INTERFACE SYSTEMS			
766/7905 Interface Unit, IBM PC (compatible) <i>inc. 766 Chassis and Patch Panel, 7905 AD/DA Interface Board, GP-6 connecting cable, 7905 trunk cable.</i> (1 per GP-6)	quantity ...	ea.	975 _____
767 Analog/Digital Positional Control Unit <i>same as above except also includes interface for an external power amplifier and servo-motor.</i> (1 per GP-6)	quantity ...	ea.	1190 _____
766/7091 Interface Unit, Apple II-8 bit <i>same functions as the 766/7905 but resolution of AD/DA converters is 8 bit.</i> (1 per GP-6)	quantity ...	ea.	595 _____
766/7093 Interface Unit, Apple II-12 bit <i>same functions as the 766/7905.</i> (1 per GP-6)	quantity ...	ea.	975 _____
766/7091 or 7093 or 7905 Interface Unit for use with microcomputers other than the IBM PC or Apple II.	quantity ...	ea.	cf _____
7905 AD/DA Board as described above but not included as part of an interface system.	quantity ...	ea.	795 _____
MICROHYBRID I			
Basic Unit <i>inc. fully wired chassis, asynchronous logic functions, eight channel multiplexer, patch cord set, GP-6 connecting cable.</i>	quantity ...	ea.	1095 _____
I/O Port, 932. (1 per basic)	optional ...	ea.	80 _____
Quad Amplifier Grp, 911. (1 per basic)	optional ...	ea.	145 _____
Dual Downcounter Grp, 938. (1 per basic)	optional ...	ea.	175 _____
Analog/Digital Converter, 7091-8 bit, or	...		95 _____
Analog/Digital Converter, 7093-12 bit. (1 per basic)	optional ...	ea.	345 _____
Multiplying Digital/Analog Converter, 937-8 bit, or	...		75 _____
Multiplying Digital/Analog Converter, 935-12 bit. (1 to 4 per basic)	optional ...	ea.	125 _____
Microcomputer peripheral board and cable, IBM or Apple.	...		95 _____
Microcomputer board and cable, for microcomputers other than the IBM or Apple II. (consult factory) (1 per basic)	optional ...	ea.	cf _____

DESCRIPTION

QTY

UNIT

EXT

GP-10 STAND-ALONE

Basic Unit same as described above except furnished in stand-alone rack-mountable chassis with 7117 power supply and rear trunk connector.

quantity ... ea. 1295 _____

Integrating Capacitor Grp, 7170 inc. 1:1, 10:1, 400:1, 4000:1 time scale capacitors and time scale scale relay for each GP-10. (1 per GP-10)

optional ... ea. 280 _____

Dual Multiplier Networks 982/1 1.0% accuracy, or

... 175 _____

982/5 0.5% accuracy, or

... 285 _____

938/1 0.1% accuracy. (1 per GP-10*)

optional ... ea. 395 _____

*Note: Additional dual multiplier networks may be added.

optional ... ea. cf _____

Microcomputer Interface, 791 Board for AD/DA, mode control, time scale and potentiometer setting functions from 7905 AD/DA board, includes connecting cable.

optional ... ea. 135 _____

Applied Dynamics AD-100 Interface cable connects amplifier outputs, trunk lines, mode and time scale control, potentiometer setting bus, plus/minus reference.

optional ... ea. 125 _____

Accessory Functions (see Accessories and General Options or consult factory.)

809 ANALOG SIGNAL PROCESSOR

Basic Unit inc. fully wired rack mount chassis, program card, two 911 quad amplifier groups but without integrating capacitors.

quantity ... ea. 895 _____

Accessories: The 809 is applied as a quick and inexpensive means to create custom analog computer circuits. Please contact the factory for application and pricing assistance.

add ... ea. -cf _____

ACCESSORIES AND GENERAL OPTIONS

The following may be furnished in either desk top or rack mounting housings:

Variable Diode Function Generator, 701 eleven segments, fixed breakpoints.

quantity ... ea. 175 _____

Variable Diode Function Generator, 709 eleven segments, variable breakpoints.

quantity ... ea. 240 _____

Transfer Function Simulator, 771 inc. power supply.

quantity ... ea. 395 _____

Three Mode Controller, 717 inc. power supply.

quantity ... ea. 375 _____

Attenuator Expansion Group, 731 inc. seven potentiometers with push button coefficient setting switches.

quantity ... ea. 280 _____

The following are printed circuit board assemblies:

Variable Diode Function Generator, 705 dial channels, eleven segments each, variable breakpoints, screw driver set adjustments.

quantity ... ea. 375 _____

Sine-Cosine Input Card, 450 signal shaping for the 705 VDFG, enables the VDFG to produce 360 degree sine-cosine functions. (1 per 705)

quantity ... ea. 150 _____

LGP-20 ANALOG/HYBRID COMPUTING SYSTEM

Furnished under special order 20 amplifiers, 10 integrators, logic, AD/DA board, inc wired chassis for two GP-10, one Microhybrid I and operators panel.

optional ... ea. 6500 _____

DESCRIPTION

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EXT

BANANA PLUG MODULES AND ELEMENTS

D/A Electronic Switch, 9302.	quantity ... ea.	65	_____
Comparator Feedback Elements, 9390.	quantity ... ea.	25	_____
Single Pole, Double Throw Function Switch 9408.	quantity ... ea.	45	_____
Coefficient Attenuator, 9447.	quantity ... ea.	50	_____
Voltage Controlled Oscillator, 9512.	quantity ... ea.	95	_____
Adjustable Hard Limiter, 9517.	quantity ... ea.	75	_____
Adjustable Dead Space, 9520.	quantity ... ea.	65	_____
Zero Limiter, 9528.	quantity ... ea.	40	_____
Absolute Value, 9560.	quantity ... ea.	90	_____
Hysteresis, 9570.	quantity ... ea.	95	_____
3 Input Summer Network, 9700.	quantity ... ea.	40	_____
Patchable Diode, 9780.	quantity ... ea.	25	_____

PROGRAMMING AND LEARNING AIDS

"Analog Computer Handbook," by Dr. Violet B. Haas.	quantity ... ea.	14	_____
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PATCHING AIDS

Pomona Shorting Plug.	quantity ... ea.	5	_____
Stack-up Patch Cords 5, 8 or 12 inch lengths.	quantity ... ea.	8	_____
Patch Cord Kits 44 patch cords: 5, 7, 10, 12 inch lengths.	quantity ... ea.	125	_____
220 VOLT OPERATION add per system.	quantity ... ea.	50	_____

COMDYNA/DALVIN CONTROLS LABORATORY WORKSTATION

The following are equipment and CAD/CONTROLLER software produced by Dalvin Controls to create and operate a controls system design workstation. The complete work station consists of a Microcomputer (IBM PC, XT, AT, PIS 2, Compatible,) an analog compute (GP-6, G9-10 Stand Alone, LGP-20,) the 767 Analog/Digital Positional Control w/7905 AD-DA Board and the following:

DVH-10 POWER AMPLIFIER ... produces 75 watts (rms) power at ± 28 volts, with a voltage gain of 5 volts/volt, current gain of 0.5 amp/volt and a frequency response of flat to 40 Hz, half power, and flat to 15 KHz, full power.	940
DVH-10/767 CONNECTING CABLE	75
DVH-1000 SERVO MOTOR/LOAD CONTROL SYSTEM MODULE ... inc. a high torque permanent magnet servo motor, variable gear train, fixed inertia load, position sensing potentiometer and velocity sensing tachometer.	2990
DVH-1000/767 CONNECTING CABLE	75
DVS-65 COMPUTER AIDED CONTROL SYSTEM DESIGN SOFTWARE ... menu selective interactive aides for the design of continuous and/or discrete control systems.	350 **
DVS-45 HARDWARE CONTROLLER SOFTWARE ... menu selective controller algorithms, strip chart simulator and other aids for conducting control experiments.	850 **


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305 Devonshire Road, Barrington, Illinois 60010, (312) 381-7560

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