BROADCAST EQUIPMENT
PRICE SCHEDULE

15 MAY 1983

MOSELEY ASSOCIATES, INC.
A Flow General Company

AURAL STUDIO-TRANSMITTER LINK AND ASSOCIATED EQUIPMENT
(950 MHz, 450 MHz, 300 MHz, 220 MHz and 150 MHz)

MODEL or TYPE	DESCRIPTION	PRICE U.S. Dollars	SHPG. WT.
PCL-606	STL - ALL SOLID-STATE Transmitter and Receiver with self-contained power supplies, crystals, and tested on operating frequency. Versions available for all commonly used bands from 148 MHz to 960 MHz.*	7,695.00	50
o SUGGESTED SPARE	SEMICONDUCTOR KIT #SP-60 for PCL-606 Aural Studio-Transmitter Link (890-960 MHz).	**	5
PCL-606/C	COMPOSITE STL - ALL SOLID-STATE Transmitter and Receiver with self-contained power supplies, crystals, and tested on operating frequency. Transmits composite stereo waveform over single STL. Versions available for all commonly used bands from 148 MHz to 960 MHz.*	7,995.00	50
o SUGGESTED SPARE	SEMICONDUCTOR KIT #SP-60 for PCL-606/C Composite Aural Studio-Transmitter Link (890-960 MHz).	**	5
PCL-505	STL - ALL SOLID-STATE Transmitter and Receiver with self-contained power supplies, crystals, and tested on operating frequency. Versions available for all commonly used bands from 148 MHz to 960 MHz.*	5,995.00	35
o SUGGESTED SPARE	SEMICONDUCTOR KIT #SP-38B(F) for PCL-505 Aural Studio-Transmitter Link (890-960 MHz).	**	5
PCL-505/C	COMPOSITE STL - ALL SOLID-STATE Transmitter and Receiver with self-contained power supplies, crystals, and tested on operating frequency. Transmits composite stereo waveform over single STL. Versions available for all commonly used bands from 148 MHz to 960 MHz.*	6,395.00	35
o SUGGESTED SPARE	SEMICONDUCTOR KIT #SP-38B(F) for PCL-505/C Composite Aural Studio-Transmitter Link (890-960 MHz).	**	5
PCL-101	STL (148-174 MHz, 215-240 MHz, 300-330 MHz, 450-470 MHz, 890-960 MHz; other frequencies on special order) - ALL SOLID-STATE Transmitter and Receiver with self-contained power supplies, crystals, and tested on operating frequency.*		
	148-174 MHz and 215-240 MHz	4,795.00	29
	300-330 MHz and 450-470 MHz	4,895.00	29
	890-960 MHz	4,995.00	29

*   Specify operating frequency when ordering.

**   Contact Customer Service Department for current prices.

MODEL or TYPE	DESCRIPTION	PRICE U.S. Dollars	SHPG. WT. (approx lbs.)
	OPTIONAL CRYSTAL I.F. FILTER ASSEMBLY, for PCL-101 Receiver. Available only for 148-470 MHz versions.	375.00	-
o	SUGGESTED SPARE SEMICONDUCTOR KIT FOR PCL-101 Aural Studio-Transmitter Link.		
	Specify: #SP-12A for 148-174 MHz	**	5
	#SP-12A for 215-240 MHz	**	5
	#SP-32 for 300-330 MHz	**	5
	#SP-13 for 450-470 MHz	**	5
	#SP-40A for 890-960 MHz	**	5
o	CRYSTAL SET for Moseley Associates STLs, consists of frequency-determining crystals, includes one transmitter crystal and one receiver crystal.*		
	PCL-101	80.00	1
	PCL-505, PCL-505/C	80.00	1
	PCL-606 and PCL-606/C	80.00	1
o	CRYSTAL OVEN Transmitter Crystal Oven for PCL-606, PCL-606/C, PCL-505, PCL-505/C.	65.00	1
TPT-2	TRANSFER PANEL TRANSMITTER, provides automatic change-over to standby STL transmitter, carrier operated. For use with PCL-101, PCL-505, PCL-505/C, PCL-606, or PCL-606/C. Specify model of Moseley STL.	785.00	7½
TPR-2	TRANSFER PANEL RECEIVER, provides automatic changeover to standby STL receiver, carrier operated. Use with PD-1000 Power Divider. For use with PCL-101, PCL-505, PCL-505/C. Specify model of Moseley Associates, Inc. STL.	585.00	15
ECP-5	STL EXTENSION CONTROL PANEL, provides carrier control and metering of relative RF power output and AFC for PCL-505, PCL-505/C, PCL-606 and PCL-606/C. Relative RF power out only for PCL-101.	325.00	4
o PR-450U	ANTENNA, Scala Paraflector (20.1 dBi gain at 950 MHz) for 300 MHz to 960 MHz, with Type N female termination, universal mounting for horizontal or vertical polarization, fully anodized, for STL.*	500.00	75
o MF-960	ANTENNA, Scala Miniflector (16.1 dBi gain at 950 MHz) for 940-960 MHz, with Type N female termination, universal mounting for horizontal and vertical polarization, fully anodized, for STL. Not recommended for congested areas.*	300.00	16
ICU-1C	ISOCOUPLER, (940-960 MHz), facilitates mounting STL antenna on ungrounded AM tower.	295.00	2

*   Specify operating frequency when ordering.

**   Contact Customer Service Department for current prices.

MODEL or TYPE	DESCRIPTION	PRICE U.S. Dollars	SHPG. WT. (approx lbs.)
ICU-2C	ISOCOUPLER, (450-470 MHz), facilitates mounting STL antenna on ungrounded AM tower.	295.00	2
ICU-3C	ISOCOUPLER, (150-172 MHz), facilitates mounting STL antenna on ungrounded AM tower. Specify exact frequency.	295.00	2
o PD-1000	POWER DIVIDER. Amtex Microwave 10 MHz-1000 MHz, Broadband, in phase two-way with N type female connectors. Facilitates coupling two STL or RPL-( ) receivers to common antenna. Supplied with two 3' RG-8/U pigtail assemblies.	250.00	2

REMOTE PICKUP EQUIPMENT - ALL SOLID-STATE
(160 MHz and 450 MHz; 215 MHz and 300 MHz on special order)

RPL-3A	REMOTE PICKUP LINK, ALL SOLID-STATE Transmitter with internal AC and DC power supplies and ALL SOLID-STATE Receiver with internal AC power supply, for operation in the 148-174 MHz band. Tuned and tested on operating frequency. Includes crystals for one frequency.* For 25F3 and 30F3 channels; FCC Groups K1, K2, L, and M.	5,795.00	33
o SUGGESTED SPARE SEMICONDUCTOR KIT #SP-18 for RPL-3A Remote Pickup Link.		**	5
RPL-4A	REMOTE PICKUP LINK, ALL SOLID-STATE Transmitter with internal AC and DC power supplies and ALL SOLID-STATE Receiver with internal AC power supply, for operation in the 450-470 MHz band. Tuned and tested on operating frequency. Includes crystals for one frequency.* For 25F3 channels; FCC Group N2.	5,995.00	33
RPL-4B	REMOTE PICKUP LINK, ALL SOLID-STATE Transmitter with internal AC and DC power supplies and ALL SOLID-STATE Receiver with internal AC power supply, for operation in the 450-470 MHz band. Tuned and tested on operating frequency. Includes crystals for one frequency.* For 50F3 and 100F3 channels; FCC Groups N1, R, and S.	5,995.00	33
	Custom modification for RPL-4B allowing 15 kHz audio response.	175.00	
o SUGGESTED SPARE SEMICONDUCTOR KIT #SP-19 for RPL-4A and RPL-4B Remote Pickup Links.		**	5
o OPTIONAL CARRIER-OPERATED SQUELCH RELAY, for RPL-3A Receiver. This option to be specified at time of order.		195.00	
o OPTIONAL CARRIER-OPERATED SQUELCH RELAY, for RPL-4A or RPL-4B Receiver. This option to be specified at time of order.		275.00	

*   Specify operating frequency when ordering.

** Contact Customer Service Department for current prices.

MODEL or TYPE	DESCRIPTION	PRICE U.S. Dollars	SHPG. WT. (approx lbs.)
o	CRYSTAL SET for RPL-3A, RPL-4A, and RPL-4B Remote Pickup Links. Second frequency or spare; consists of frequency-determining crystals including one transmitter crystal and one receiver crystal. Specify exact operating frequency when ordering.	80.00	1
AMP-( )	RF POWER AMPLIFIER, for use with Remote Pickup Link Transmitter. FCC type accepted with above transmitters.		
	AMP-150 for 150-170 MHz, 13.5 VDC operation	595.00	10
	AMP-150-R Rack Mounted with AC Power Supply	1,350.00	26
	AMP-450 for 450-470 MHz, 13.5 VDC operation	850.00	10
	AMP-450-R Rack Mounted with AC Power Supply	1,675.00	26

TELEMETRY RETURN LINK - FOR "TSL" OR UTILITY SERVICE
(450-470 MHz, other frequencies on special order)

TRL-1	TELEMETRY RETURN LINK, ALL SOLID-STATE Transmitter and Receiver. Tuned and tested on operating frequency.* Nominal one watt transmitter output. Receiver designed specifically for narrowband service. For 10F2/10F3 channels; FCC Group P.	3,195.00	18
	OPTIONAL MCW IDENTIFIER module. Installs internally to TRL-1 Transmitter. Nominally ID's transmitter every 20 minutes. Specify call letters/ID when ordering.	275.00	-
o	OPTIONAL BATTERY PACK. Installs internally to transmitter. Provides approximately 20 minute transmitter backup. Keys MCW ID's continuously for simple power fail alarm.	150.00	2
o	SUGGESTED SPARE SEMICONDUCTOR KIT #SP-54 for TRL-1.	**	1

TYPICAL ANTENNAS, COAXIAL TRANSMISSION LINE AND CONNECTOR KITS

o	CA5-150H	ANTENNA, Scala five-element Yagi, horizontally polarized. 9 dBd gain, 140-230 MHz.*	160.00	12
o	OG-4	ANTENNA, Scala omni-directional collinear array, 4 dBd gain, 150-170 MHz.*	250.00	25
o	CA5-450	ANTENNA, Scala five-element Yagi, H or V polarization, 10 dBd gain, 230-500 MHz.*	160.00	7
o	OG-6	ANTENNA, Scala omni-directional collinear array, 6 dBd gain, 450-470 MHz.*	250.00	16

* Specify operating frequency when ordering.

** Contact Customer Service Department for current prices.

	MODEL or TYPE	DESCRIPTION	PRICE U.S. Dollars	SHPG. WT. (approx lbs.)
o	PR-450U	ANTENNA, Scala Paraflector, H or V polarization, 15.5 dBd gain, 450-470 MHz.*	500.00	75
o	CA7-460	ANTENNA, Scala broadband, seven-element Yagi, H or V polarization, 10 dBd gain, 450-470 MHz.	160.00	7½
	ICU-3C	ISOCOUPLER (for 150-172 MHz), facilitates mounting remote pickup antenna on ungrounded AM tower.*	295.00	2
	ICU-2C	ISOCOUPLER (for 450-470 MHz), facilitates mounting remote pickup antenna on ungrounded AM tower.*	295.00	2
o	LDF4-50	HELIAX*** Low-loss Coaxial Transmission Line, 1/2", foam dielectric, 50 ohm, jacketed. (2.4 dB/100 ft. at 950 MHz, 1.5 dB at 450 MHz) Per Ft.	~~1.55~~ 1.60	30/100'
o	KTL-6	CONNECTOR KIT, for LDF4-50, includes two Type N connectors (female connectors normally supplied) and two 3' RG-8/U pigtail assemblies. ONE KIT REQUIRED FOR EACH ANTENNA.	100.00	2½
o	LDF5-50	HELIAX*** Low-loss Coaxial Transmission Line, 7/8" foam dielectric, 50 ohm, jacketed. (1.4 dB/100 ft. at 950 MHz, 0.85 dB at 450 MHz) Per Ft.	~~4.05~~ 4.15	80/100'
o	KTL-7	CONNECTOR KIT, for LDF5-50, includes two Type N connectors (female connectors normally supplied) and two 3' RG-8/U pigtail assemblies. ONE KIT REQUIRED FOR EACH ANTENNA.	175.00	2½
o	RG-8/U	3' Pigtail Assembly, Type N male connector on each end.	30.00	1

SOLID-STATE MULTIPLEX EQUIPMENT FOR STEREO, SCA, AND STL APPLICATIONS

	MODEL or TYPE	DESCRIPTION	PRICE U.S. Dollars	SHPG. WT. (approx lbs.)
	SCG-9A	FM STEREO GENERATOR, includes power supply and peak-reading deviation meter.	1,750.00	11½
o	SUGGESTED SPARE SEMICONDUCTOR KIT #SP-39A for SCG-9A Stereo Generator.		**	5
	SCD-9	FM STEREO DEMODULATOR, includes power supply. Demodulates composite stereo signal into discrete left and right channels.	995.00	10½

*   Specify operating frequency when ordering. Special order frequencies available. Contact our Marketing Department for assistance in selection of antennas and transmission line.

**   Contact Customer Service Department for current prices.

***   ® Trademark Andrew Corporation.

MODEL or TYPE	DESCRIPTION	PRICE U.S. Dollars	SHPG. WT. (approx lbs.)
SCG-8	SUBCARRIER GENERATOR, with automatic muting and front-panel peak-deviation meter, including self-contained power supply. Available for operation at a specific frequency in the 26 kHz to 185 kHz spectrum. Specify operating frequency when ordering.	975.00	10½
o SUGGESTED SPARE SEMICONDUCTOR KIT #SP-34 for SCG-8 Subcarrier Generator.		**	5
SCD-8	SUBCARRIER DEMODULATOR, with automatic muting and front-panel peak-deviation meter, including self-contained power supply. Available for operation at a specific frequency in the 26 kHz to 185 kHz spectrum. Specify operating frequency when ordering.	995.00	10½
o SUGGESTED SPARE SEMICONDUCTOR KIT #SP-33 for SCD-8 Subcarrier Demodulator.		**	5
SCM-1	SUBCARRIER MAIN FRAME. Accommodates two subcarrier modules. System includes one generator or demodulator module. Specify generator or demodulator, subcarrier frequency (26-185 kHz) and STL model when ordering for utility/control/telemetry service.	850.00	8
ADDITIONAL SUBCARRIER GENERATOR for SCM-1 (26-185 kHz).		250.00	2
ADDITIONAL SUBCARRIER DEMODULATOR for SCM-1 (26-185 kHz).		250.00	2

AUDIO PROCESSING EQUIPMENT

MODEL or TYPE	DESCRIPTION	PRICE U.S. Dollars	SHPG. WT. (approx lbs.)
TFL-280B	AUDIO LIMITER, includes switchable 75 μsecond pre-emphasis and de-emphasis, plug-in 15 kHz audio low-pass filter, power supply and front panel calibrated meter. Other time-constants and audio low-pass filters available on special order. For FM, FM SCA, and TV aural service.	1,475.00	11½
TFL-280B	STEREO PAIR, consisting of two Model TFL-280B Audio Limiters. Matched in performance characteristics for FM stereo service.*	2,895.00	18½
o SUGGESTED SPARE SEMICONDUCTOR KIT #SP-43B for TFL-280B Audio Limiter.		**	5
TAL-320	AUDIO LIMITER, includes all-pass network, compressor, adjustable clipper, output low-pass filter, power supply and front-panel calibrated meter. For AM and AM stereo service.*	1,395.00	10½

* Matched performance for stereo (or quadraphonic) service may involve consideration of present and/or future stereo generator(s).

** Contact Customer Service Department for current prices.

MODEL or TYPE	DESCRIPTION	PRICE U.S. Dollars	SHPG. WT (approx lbs.)
TAL-320	STEREO PAIR, consisting of two Model TAL-320 Audio Limiters. Matched in performance characteristics for AM stereo service.*	2,750.00	16½
o SUGGESTED SPARE SEMICONDUCTOR KIT #SP-58 for TAL-320 Audio Limiter.		**	5
TGR-340	AUDIO GAIN RIDER, includes compressor, adjustable recovery-enable, adjustable recovery delay, clipper control, switchable low-distortion treble AGC, power supply and front-panel calibrated meter. An all purpose automatic level controller for AM-FM-TV-STL-Satellite feed and production service.	1,375.00	10½
TGR-340	STEREO PAIR, Consisting of two Model TGR-340 Audio Gain Riders. Matched in performance characteristics for AM-FM-TV-STL-Satellite feed and production service.	2,695.00	17½
o SUGGESTED SPARE SEMICONDUCTOR KIT #SP-57 for TGR-340 Audio Gain Rider.		**	5

SOLID-STATE ANALOG TRANSMITTER REMOTE CONTROL EQUIPMENT

MODEL or TYPE	DESCRIPTION	PRICE U.S. Dollars	SHPG. WT (approx lbs.)
† TRC-15AW	WIRE REMOTE CONTROL SYSTEM, SOLID-STATE, 15-channel, 1 meter, for use on single AC pair.	4,995.00	58
o SUGGESTED SPARE SEMICONDUCTOR KIT #SP-28 for TRC-15AW Remote Control System.		**	5
† TRC-15AR	RADIO (STL) REMOTE CONTROL SYSTEM, SOLID-STATE, 15-channel, 1 meter, with control subcarrier generator and detector, for use with Moseley STL. Advise STL model and subcarrier frequency when ordering. Sub-audible (20-30 Hz) telemetry standard.	5,495.00	58
o SUGGESTED SPARE SEMICONDUCTOR KIT #SP-27 for TRC-15AR Remote Control System.		**	5
TELEMETRY SCA GENERATOR MODULE, for use with TRC-15A Remote Control System for telemetry return only, frequency 67 kHz. Other frequencies 26 kHz to 185 kHz on special order. Specify for use with TRC-15A.		250.00	3
1077-( )	REMOTE METER PANEL, for use with Moseley analog remote control systems. Select desired meter scales from Technical Notes 220. Available in one, two, or three-meter configurations.		
	1077-1 One-Meter Panel	225.00	5
	1077-2 Two-Meter Panel	235.00	5
	1077-3 Three-Meter Panel	245.00	5

* Matched performance for stereo (or quadraphonic) service may involve consideration of present and/or future stereo generator(s).

** Contact Customer Service Department for current prices.

MODEL or TYPE	DESCRIPTION	PRICE U.S. Dollars	SHPG. WT. (approx lbs.)

TELECONTROL SYSTEMS

TCS-1   TELECONTROL SYSTEM, provides eight independent command and eight status functions. Expandable to a total of 16 command and 16 status functions by addition of second TCS-1 on common 3 kHz interconnect. Consists of Command Terminal and Remote Terminal.   **2,995.00**   **21**

o   SUGGESTED SPARE SEMICONDUCTOR KIT #SP-49 for TCS-1 Telecontrol System.   ******   **1**

TCS-2A   TELECONTROL SYSTEM, provides eight independent command, status and digital telemetry functions. FCC acceptable for AM and FM broadcast transmitter remote control. Digital telemetry provides one-man calibration Microprocessor-based design.   **4,495.00**   **26**

o   SUGGESTED SPARE SEMICONDUCTOR KIT #SP-50 for TCS-2A Telecontrol System.   ******   **1**

MICROPROCESSOR-BASED REMOTE CONTROL SYSTEMS

MRC-1600 System

MRC-1600   MICROPROCESSOR REMOTE CONTROL SYSTEM, consisting of one Control Terminal, one Remote Terminal. System is equipped with 32 command relays, 16 status channels (TTL/contact closure), and 16 digital telemetry channels. FCC acceptable for AM and FM broadcast transmitter remote control. Includes audible telco/telco data interface on each terminal.   **3,695.00**   **30**

OPTION FOR SUBCARRIER GENERATOR MODULE, for use with MRC-1600 Control Terminal or Remote Terminal. Displaces telco output module. Available at standard subcarrier frequencies between 26 kHz and 185 kHz. Advise STL or radio link and subcarrier frequency when ordering.

                 Per terminal, per module   **50.00**

OPTION FOR SUBCARRIER DEMODULATOR MODULE, for use with MRC-1600 Control Terminal or Remote Terminal. Displaces telco input module. Available at standard subcarrier frequencies between 26 kHz and 185 kHz. Advise STL or radio link and subcarrier frequency when ordering.

                 Per terminal, per module   **50.00**

OPTION FOR SUBAUDIBLE TELEMETRY FOR MRC-1600 SYSTEM, replaces audible telemetry modules. Allows carriage of telemetry along with AM programming or FM SCA programming. 100.00

MRC-1 System

MRC-1	MICROPROCESSOR REMOTE CONTROL SYSTEM. Includes one Control Terminal and one Remote Terminal. Up to nine Remote Terminals function with a single Control Terminal. For 2-wire or 4-wire dedicated wireline or equivalent interconnecting circuits. Basic system equipped for 16 command lines (open collector electronic switching), 16 status channels (TTL/contact closure), and 16 telemetry channels, indicated as 16/16/16.	6,995.00	46
o	SUGGESTED SPARES KIT #SP-56 for MRC-1 Microprocessor Remote Control.	**	2
	MRC-1 REMOTE TERMINAL ONLY. Individual programmable site code for up to nine Remote Terminals per Control Terminal. Equipped as above MRC-1 System, (16/16/16).	4,195.00	26
MRC-1A	MICROPROCESSOR REMOTE CONTROL SYSTEM. Includes one Control Terminal and one Remote Terminal. MRC-1A Control Terminal allows use of all four MRC-1 options (i.e., Moseley Memory, CRT, Automatic Logging, and Multiple Direct Command). Up to nine Remote Terminals function with a single Control Terminal. For 2-wire or 4-wire dedicated wireline or equivalent interconnecting circuits. Basic system equipped for 16 command lines (open collector electronic switching), 16 status channels (TTL/contact closure), and 16 telemetry channels, indicated as 16/16/16.	7,995.00	
	EXPANSION.* MRC-1 Expansion to up to 64 command lines, 32 status channels, and 32 telemetry channels per Remote Terminal. Expansion applies to Remote Terminals only.		

* For additional applications and field installation practices, consult the Marketing Department.

** Contact Customer Service Department for current prices.

MRC-1 Remote Terminal Command Expansion

Expansion from 16 to 32 command lines (32/--/--)

    Per 16 lines, add to above prices   395.00   -

Expansion from 32 to 48 command lines (48/--/--)

    Per 16 lines, add to above prices   395.00   -

Expansion from 48 to 64 command lines (64/--/--)

    Per 16 lines, add to above prices   395.00   -

OPTION FOR OPTICALLY ISOLATED COMMAND LINES. If ordered with MRC-1 system, replaces the open collector electronic switching provided as standard.

    Per 16 channels, add to above price   195.00   -

CIP-2	CIP-2 OPTION FOR RELAY ISOLATED COMMAND LINES. Includes 19" (48.3 cm) rack panel, 16 relay sockets and power supply. Relays not included.	450.00	4½
O RELAY FOR CIP-2, contacts rated at 5A, SPDT.		16.50	-
BSP-1	BARRIER STRIP INTERFACE PANEL. Provides convenient interface connections for 16 command lines, 16 status channels, or 16 telemetry channels. Includes ribbon cable with plug for MRC-1 Remote Terminal.	250.00	

Expansion from 16 to 32 lines or channels, 32 to 48 lines or channels, 48 to 64 lines or channels for BSP-1.

    Per 16 lines or channels   125.00

MRC-1 Remote Terminal Status Expansion

Expansion from 16 to 32 status channels (--/32/--)

    Per 16 channels, add to above prices   395.00   -

OPTION FOR OPTICALLY ISOLATED STATUS CHANNELS. If ordered with MRC-1 system, replaces TTL/contact closure provided as standard.

    Per 16 channels, add to above prices   295.00   -

MRC-1 Remote Terminal Telemetry Expansion

Expansion from 16 to 32 telemetry channels (--/--/32)

<table>
<tr><td></td><td>Per 16 channels, add to above prices</td><td>595.00</td><td>-</td></tr>
</table>

MRC-1 Interconnection

OPTION FOR WIRELESS OPERATION. FM subcarrier generator/demodulator mounts internally to MRC-1 and displaces audible, telco operation. For FM subcarrier/telco combination schemes use SCG-8/SCD-8 or SCM-1 appearing on Page 6. Specify STL or radio link model when ordering.

<table>
<tr><td></td><td>Per terminal, per module</td><td>200.00</td><td>-</td></tr>
</table>

MRC-1 and MRC-1A Options

▽ OPTION FOR CATHODE-RAY TUBE (CRT) TERMINAL. Duplicates all panel functions of the MRC-1 Control Terminal. Allows simultaneous display of data for 32 channels, including telemetry readings, status conditions, command functions, site number, time of day, operation and error-oriented messages. Accommodates up to nine sites.

<table>
<tr><td></td><td>Per location, add</td><td>3,495.00</td><td>40</td></tr>
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OPTION FOR MOSELEY MEMORY. Provides indefinite storage, EAROM device. May be installed in either Remote Terminal or Control Terminal. Specify when ordering.

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<tr><td></td><td>Per location, add</td><td>795.00</td><td>-</td></tr>
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▽ OPTION FOR AUTOMATIC LOGGING. Includes I/O modules, software and Teletype Model 43 Desktop Printer. Single printer at Control Terminal accommodates up to nine Remote Terminals. Logger can be installed at Control Terminal or Remote Terminal. Specify when ordering. Battery provided for text memory. Moseley Memory optional.

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<tr><td></td><td>Per location, add</td><td>3,195.00</td><td>50</td></tr>
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OPTION FOR MULTIPLE DIRECT COMMAND. Provides ten individually accessible and programmable pushbutton switches accessing any command line at any site. Includes 19" rack mount chassis and interconnecting cable.

<table>
<tr><td></td><td>Per 10 lines, per location, add</td><td>1,995.00</td><td>-</td></tr>
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MRC-2 System

MRC-2 — MICROPROCESSOR REMOTE CONTROL SYSTEM, consisting of one Control Terminal, one stand-alone Remote Terminal. Remote Terminal includes data acquisition/command capability, precludes CRT, MDC, MSD capability for terminal. System is configured with 16 command lines (open collector electronic switching), 16 status channels (TTL/contact closure), and 16 analog telemetry channels (indicated as 16/16/16). System includes two sets of modems for main/backup wire interconnections. — 10,695.00 — 60

MRC-2 — MICROPROCESSOR REMOTE CONTROL SYSTEM, consisting of one Control Terminal, one Remote Terminal, and one standard Data Acquisition/Command Unit (DACU-1). System is configured with 32 command lines (open collector electronic switching), 32 status channels (TTL/contact closure), and 32 analog telemetry channels (indicated as 32/32/32). System includes two sets of modems for main/backup wire interconnections. — 14,995.00 — 90

MRC-2 CONTROL TERMINAL ONLY. Up to two standard Control Terminals can be used with any single standard Remote Terminal. Up to four Control Terminals can be used with any single standard Remote Terminal by the use of additional modems (listed below). In standard configuration, system expansion of up to nine additional expansion/option modules is possible. — 5,495.00 — 30

MRC-2 — STAND-ALONE REMOTE TERMINAL ONLY. Includes data acquisition/command capability, precludes CRT, MDC, MSD capability for terminal. Configured with 16 command lines (open collector electronic switching), 16 status channels (TTL/contact closure), and 16 analog telemetry channels (indicated as 16/16/16). Terminal includes two modems for main/backup wire interconnections. — 7,095.00 — 30

o SUGGESTED SPARES KIT #SP-61 for MRC-2 Microprocessor Remote Control. — ** — 2

MRC-2 REMOTE TERMINAL ONLY. Incorporates individual programmable site code for multiple Remote Terminals per system. Requires use of one standard Data Acquisition/Command Unit, as listed below. — 5,695.00 — 30

DACU-1 — MRC-2 STANDARD DATA ACQUISITION/COMMAND UNIT ONLY. One unit required for use with each MRC-2 Remote Terminal. Equipped as MRC-2 system above (32/32/32). Allows for system expansion of up to four additional expansion/option modules. — 5,895.00 — 30

** Contact Customer Service Department for current prices.

System Expansion

DACU-1E   MRC-2 DATA ACQUISITION/COMMAND EXPANSION UNIT ONLY, consisting of one expansion chassis, equipped with one CPU module, one 24K ROM module, one 16K RAM module, one File Memory Controller module, and one General Purpose Interface Bus (GPIB) module. Allows for system expansion of up to ten additional expansion/option modules. Equipped as 0/0/0.   **3,125.00**   **30**

COMMAND LINE EXPANSION. The MRC-2 COMMAND LINE capabilities can be expanded to a maximum of 255 lines per remote site, in groups of 16 lines, by the addition of Command Line (open collector) Expansion modules, in the DACU-1 or DACU-1E.

         Per 16-line module   395.00

STATUS CHANNEL EXPANSION. The MRC-2 STATUS CHANNEL capabilities can be expanded to a maximum of 255 channels per remote site, in groups of 16 channels, by the addition of Status Channel (TTL/contact closure) Expansion modules, in the DACU-1 or DACU-1E.

         Per 16-line module   395.00

TELEMETRY CHANNEL EXPANSION. The MRC-2 ANALOG TELEMETRY CHANNEL capabilities can be expanded to a maximum of 255 channels per remote site, in groups of 16 channels, by the addition of Telemetry Channel Expansion modules, in the DACU-1 or DACU-1E.

         Per 16-line module   595.00

CEU-1   COMMUNICATIONS EXPANSION UNIT (Control Terminal), allows for up to nine expansion/option modules to be used with the MRC-1 Control Terminal. First expansion unit requires one General Purpose Interface Bus (GPIB) be added to the standard Control Terminal.   **3,495.00**   **30**

MRC-2 Options

▽   OPTION FOR CATHODE-RAY TUBE (CRT) TERMINAL. Duplicates all panel control functions of the MRC-2 Control Terminal (or Remote Terminal), and allows full display of all status and telemetry channels, in 32-channel-per-display-page blocks. First CRT option per site <u>must</u> be used in conjunction with File Memory module(s) option.*   **3,695.00**   **40**

▽   OPTION FOR AUTOMATIC LOGGING. Includes I/O modules, software and desktop printer. Logger option <u>must</u> be used in conjunction with File Memory module(s) option.*   **3,395.00**   **50**

*   For FILE MEMORY requirements exceeding the standard 32/32/32 system configuration; or, for multiple CRT and/or Logger options, contact the Marketing Department.

MODEL or TYPE	DESCRIPTION	PRICE U.S. Dollars	SHPG. WT. (approx lbs.)
	OPTION FOR FILE MEMORY EXPANSION MODULE. Supplies an additional 8K of EAROM memory. Per 8K module	695.00	
	OPTION FOR OPTICALLY ISOLATED COMMAND LINES. If ordered with MRC-2 system, replaces the Open Collector Electronic Switching provided as standard. Per 16 channels, add to above price	195.00	
CIP-2	CIP-2 OPTION FOR RELAY ISOLATED COMMAND LINES. Includes 19" (48.3 cm) rack panel, 16 relay sockets and power supply. Relays not included.	450.00	4½
o	RELAY FOR CIP-2, contacts rated at 5A, SPDT.	16.50	
BSP-1	BARRIER STRIP INTERFACE PANEL. Provides convenient interface connections for 16 command lines, 16 status channels, or 16 telemetry channels. Includes ribbon cable with plug for MRC-2 DACU-1 connector.	250.00	
	Expansion from 16 to 32 lines or channels, 32 to 48 lines or channels, 48 to 64 lines or channels for BSP-1. Per 16 lines or channels	125.00	
	OPTION FOR OPTICALLY ISOLATED STATUS CHANNELS. If ordered with MRC-2 system, replaces TTL/contact closure provided as standard. Per 16 channels, add to above price	295.00	
	OPTION FOR DIGITAL TELEMETRY INPUT. Allows direct input of BCD telemetry into DACU-1, DACU-1E, or stand-alone Remote Terminal.	425.00	
	OPTION FOR TELEMETRY FAIL-SAFE. Module provides full compliance with FCC Rules and Regulations for TV telemetry fail-safe operation. Monitors up to six transmitters at any single remote site.	495.00	
	OPTION FOR EXPANSION MODEM, to be installed at either Control Terminal or Remote Terminal. Used for providing additional system data links. Must be used in conjunction with Data Link Interfaces listed below. Telco In/Telco Out Interface provided as standard. Per terminal, per module	595.00	
	OPTION FOR TELCO IN/SUBCARRIER OUT INTERFACE. ** Ψ Per terminal, per module	200.00	
	OPTION FOR SUBCARRIER IN/TELCO OUT INTERFACE. ** Ψ Per terminal, per module	200.00	

** Must be used in conjunction with modem.

Ψ Subcarrier generator or demodulator available at standard subcarrier frequencies (26 kHz - 185 kHz)

OPTION FOR SUBCARRIER IN/SUBCARRIER OUT. ** Ψ

	Per terminal, per module	200.00	
MDC-2	MULTIPLE DIRECT COMMAND, provides 16 individually programmable push-button switches with tally back accessing any command line accessible by the associated terminal. Includes 19" rack mount chassis, interconnecting cable and interface modules.	1,975.00	15
MDC-2E	MULTIPLE DIRECT COMMAND, provides 16 individually programmable push-button switches with tally back accessing any command line accessible by the associated terminal. Includes 19" rack mount chassis and interconnecting cable to interface to previously installed MDC-2 or MSD-1 connected to same terminal.	1,575.00	15
MSD-1	MULTIPLE STATUS DISPLAY, allows continuous LED display of two blocks of 16 status channels. Includes 19" rack mount chassis, interconnecting cable, and interface modules.	1,750.00	15
MSD-1E	MULTIPLE STATUS DISPLAY, allows continuous LED display of two blocks of 16 status channels. Includes 19" rack mount chassis and interconnecting cable to interface to previously installed MDC-2 or MSD-1 connected to same terminal.	1,350.00	15
† ACU-1	AUTOMATIC CONTROL UNIT, allows user-programmable multiple-step, real-time and/or feedback-oriented automatic control at a remote site. May be installed at Control Terminal or Remote Terminal. Includes 16-bit microprocessor-based computer, software, interconnecting cable and interface modules.	13,995.00	50

REMOTE CONTROL AND LOGGING ACCESSORIES

AMU-1	ANTENNA MONITOR INTERFACE UNIT, for interface of remote control and automatic logging systems to an AM antenna monitor.		
	For up to: 4 towers	1,875.00	9½
	8 towers	2,275.00	9½
	12 towers	2,675.00	9½
CIP-1	CONTROL INTERFACE PANEL, provides for use of slave or repeating relays with Moseley Associates Remote Control Systems. Accepts up to seven relays. Relays not included.	225.00	4½
o Type 5480DC	Relay, DPDT, momentary closure, coil for 24 VDC.	25.00	1
o Type 5480AC	Relay, DPDT, momentary closure, coil for 120 VAC.	27.50	1
o Type 5481DC	Relay, SPDT, magnetic latching, coil for 24 VDC.	30.00	1
o Type 5481AC	Relay, SPDT, magnetic latching, coil for 120 VAC.	32.50	1

MODEL or TYPE	DESCRIPTION	PRICE U.S. Dollars	SHPG. WT. (approx lbs.)
DCA-2	DC AMPLIFIER, ISOLATED INPUT. Provides low-level telemetry amplification and power-to-linear conversion.	635.00	5
o DCP-1	DC POWER SUPPLY, 24 VDC, 1A into seven parallel terminals. For use with CIP-1 Control Interface Panel, rack mount; 120/240 VAC, 50-60 Hz input.	395.00	5
o DCP-1	WITH TWO DC POWER SUPPLIES in common rack mount, 24 VDC, 2A into 14 (2 x 7) parallel terminals. For use with CIP-1 Control Interface Panel; 120/240 VAC, 50-60 Hz input.	575.00	7½
LVK-3	LINE VOLTAGE SAMPLING KIT (120 VAC to 400 VAC, 50-60 Hz).	165.00	2
MBB-1	UNIVERSAL PLATE CIRCUIT (1_p or E_{bb}) SAMPLING KIT. Used when sampling points are either above or below ground potential. (Requires external shunt or series resistor. Resistor not supplied.)	265.00	2
MIU-2	METERING INSERTION UNIT, enables mixing of subaudible metering signal with program audio. For AM broadcast and FM SCA operation.	875.00	8
MMA-1	MODULATION MONITOR ADAPTER. Adapts audio output to analog remote control telemetry.	425.00	2
MPP-1	MOTORIZED POTENTIOMETER PANEL, provides remote control of three potentiometers. Specify value of potentiometer desired. Two-watt carbon potentiometers included.	725.00	10
PVK-1A	PLATE VOLTAGE SAMPLING KIT, for plate voltages thru 3kV. Specify normal operating plate voltage.	195.00	1
PVK-1B	PLATE VOLTAGE SAMPLING KIT, for plate voltage 3kV thru 10kV. Specify normal operating plate voltage.	195.00	1
PVK-2	PLATE VOLTAGE SAMPLING KIT, for plate voltage 10kV thru 20kV. Specify normal operating plate voltage.	250.00	2
RFK-1	AM RF TRANSMISSION LINE VOLTAGE SAMPLING KIT.	195.00	2
RFK-2	FM RF TRANSMISSION LINE VOLTAGE SAMPLING KIT, for 3-1/8" line.	195.00	1
RFK-3	FM RF TRANSMISSION LINE VOLTAGE SAMPLING KIT, for 1-5/8" line.	195.00	1
RMK-1	REVERSIBLE MOTOR KIT with adjustable clutch.	245.00	3

MODEL or TYPE	DESCRIPTION	PRICE U.S. Dollars	SHPG. WT. (approx lbs.)
TAU-3	TOLERANCE ALARM UNIT MAIN FRAME, will accommodate up to eight plug-in comparator modules. For use with early Moseley automatic logging systems or DCS-2A Status Subsystem(s).	350.00	10
	PLUG-IN COMPARATOR MODULE for TAU-3 Tolerance Alarm Unit Main Frame.	175.00	
TLK-2	TOWER LIGHT SAMPLING KIT	195.00	1
TSK-3A	TEMPERATURE SENSING KIT, remoteable sensor. Includes power supply for operation from 120/240 VAC, 50-60 Hz.	195.00	2

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MRC-2 EXPANSION

MRC-2 OPTIONS

REMOTE CONTROL AND LOGGING ACCESSORIES

Warranty

All equipment designed and manufactured by Moseley Associates, Inc. is warranted against defects in workmanship and material that develop under normal use within a period of one (1) year, or (2) years for all MRC series equipment, from the date of original shipment, and is also warranted to meet any specifications represented in writing by Moseley Associates, Inc., so long as the purchaser is not in default under his contract of purchase and subject to the following additional conditions and limitations:

    1.   The sole responsibility of Moseley Associates, Inc. for any equipment not conforming to this Warranty shall be, at its option:

    A.   To repair or replace such equipment or otherwise cause it to meet the represented specifications either at the purchaser's installation or upon the return thereof f.o.b. Goleta, California, as directed by Moseley Associates, Inc.; or

    B.   To accept the return thereof f.o.b. Goleta, California, credit the purchaser's account for the unpaid portion, if any, of the purchase price, and refund to the purchaser, without interest, any portion of the purchase price theretofore paid; or

    C.   To demonstrate that the equipment has no defect in workmanship or material and that it meets the represented specifications, in which event all expenses reasonably incurred by Moseley Associates, Inc., in so demonstrating, including but not limited to costs of travel to and from the purchaser's installation, and subsistence, shall be paid by purchaser to Moseley Associates, Inc.

    2.   In case of any equipment thought to be defective, the purchaser shall promptly notify Moseley Associates, Inc., in writing, giving full particulars as to the defects. Upon receipt of such notice, Moseley Associates, Inc. will give instructions respecting the shipment of the equipment, or such other manner as it elects to service this Warranty as above provided.

    3.   This Warranty extends only to the original purchaser and is not assignable or transferable, does not extend to any shipment which has been subjected to abuse, misuse, physical damage, alteration, operation under improper conditions or improper installation, use or maintenance, and does not extend to equipment or parts not manufactured by Moseley Associates, Inc. and such equipment and parts are subject to only adjustments as are available from the manufacturer thereof.

    4.   No other warranties, express or implied, shall be applicable to any equipment sold by Moseley Associates, Inc. and no representative or other person is authorized by Moseley Associates, Inc. to assume for it any liability or obligation with respect to the condition or performance of any equipment sold by it, except as provided in this Warranty. This Warranty provides for the sole right and remedy of the purchaser and Moseley Associates, Inc. shall in no event have any liability for consequential damages or for loss, damage or expense directly or indirectly arising from the use of equipment purchased from Moseley Associates, Inc.