

# DOVETRON

## SELECTION GUIDE - MPC SERIES

All Dovetron terminal units may be used on either 115 or 230 VAC  $\pm 20\%$ , 40 to 400 Hz, single phase power mains. Line voltage and frequency stability are not important. All units contain a phase-continuous AFSK Tone Keyer and an RY Generator that produces Mark-Space Reversals, which also serve as an internal calibrator and provides a Self-Test signal for the terminal unit.

All units, except the Tempest units, contain an internal high level loop power supply. The Neutral loop configuration may be set for 20, 40 or 60 milliamperes at 130 VDC. The Dual Keyer (DK) versions also provide Polar loop configurations of 20, 40 or 60 mils double-current at  $\pm 60$  VDC. EIA RS232C ( $\pm 12$  VDC) and MIL STD 188C ( $\pm 6$  VDC) outputs are also provided on all units. The TEMPEST units provide only RS232C and MIL STD 188C outputs.

The three-wire power cable is detachable and Dovetron can provide either the American, Western European or Australian type of connector. The detachable cabinet side-plates are available for either rack mount (19") or table top. Specify your preference for power cable type and Cabinet type with order.

The following is offered to help you select the model most useful in your particular application.

- MPC-1000C      Good choice where signal quality is good and baud rate constant as in a closed net. Requires high level Neutral or low level Polar printer.
- MPC-1000C/DK    Dual Keyer version of MPC-1000C for use with high level Polar printers. Contains BAL-200 option.
- MPC-1000CR  
MARK II        Provides Signal Regeneration, Speed Conversion and Digital Autostart. Also contains BBP-100 Binary Bit Processor with selectable bandwidth. Best commercial choice for long haul HF signals that are susceptible to multipath distortion, noise, selective fades and interference. All options available.
- MPC-1000CR/DK  
Mark II        Dual Keyer version of the MPC-1000CR. Best choice for commercial applications that require high level Polar printers. Also best choice for system houses and OEMs that must be able to interface to any type of teleprinter available at "destination".
- MPC-1000R  
Mark II        Same performance as MPC-1000CR. Contains triple Tone-Pair AFSK Tone Keyer. When equipped with TSR-500D provides 200 character FIFO (First-In, First-Out) buffer memory that may be Preloaded and Recirculated, keyboard-controlled Word Correction and Variable Character Rate. Good choice for net control stations and amateur radio operators.
- MPC-1000T  
Mark II  
Tempest        As the model number implies, the "T" units are meant for use in "secure" applications. The T does not contain a high level loop power supply. Special optical and power line filters are built-in to prevent radiation of electro-magnetic energy. Not intended for casual or commercial use. Orders will not be accepted by Dovetron for the Tempest unit without prior consultation with customer regards exact requirements.

The TSR-400D and TSR-600D may be substituted for the TSR-200D in all units. The 400D provides simultaneous Baudot to ASCII code conversion and the 600D provides dual Selective Calling On-Off and 16 character Answerback message.

COMMERCIAL PRICE LIST

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627 FREMONT AVE

SOUTH PASADENA, CALIFORNIA 91030

213-682-3705STANDARD NEUTRAL LOOP TERMINAL UNITS

MPC-1000C	In-Band Diversity with Multipath Correction:	\$ 1395.00
MPC-1000CR (II)	Basic-CR with dummy TSR-Adapter assembly. Front panel Signal Speed Switch is not functional:	\$ 1645.00
MPC-1000CR (II) TSR-200D	The TSR-200D assembly provides Signal Regeneration, Speed Conversion and Digital Autostart:	\$ 1795.00
MPC-1000CR (II) TSR-300D	Signal Regeneration, Speed Conversion, Digital Autostart and ON/OFF Selective Calling:	\$ 1995.00
MPC-1000CR (II) TSR-400D	Provides simultaneous Baudot to ASCII Code Translation of incoming (RO) Baudot signals:	\$ 1995.00
MPC-1000CR (II) TSR-600D	Provides GROUP and STATION Selective Calling with 16 character WRU Answerback Generator:	\$ 2145.00

All of the above units contain the following standard features:

High Level (130 VDC) Solid State Neutral Loop Keyer.  
Internal (20, 40 or 60 Ma) Loop Power Supply.  
Low Level Polar (RS232C and MIL 188C) FSK Outputs.  
Phase Continuous AFSK Tone Keyer with M/S Reversals.  
SSD-100 Solid State Cross Display (US Patent 4229698).  
Dual Diversity Combiner/Comparator circuitry.  
Power Supply: 115/230 VAC  $\pm 20\%$ , 40 to 400 Hz.

All Mark II units contain the BBP-100 Binary Bit Processor, which also provides three front-panel selectable bandwidths for optimum S/N ratio.

DUAL KEYER (DK) TERMINAL UNITS

All of the above units are available in a Dual Keyer (DK) configuration to permit easy in-the-field interfacing to either high-level Neutral or high-level (double current) Polar teleprinters. To order a DK unit, add /DK suffix (Example: MPC-1000CR/DK) and increase price per unit:

\$ 100.00

TEMPEST TERMINAL UNITS

MPC-1000T (II) TEMPEST	Tempest version of the MPC-1000C with BBP-100 Binary Bit Processor and Selectable Bandwidth. Outputs are MIL 188C, EIA RS232C & $\emptyset$ dbm AFSK. Keyboard data entry is $\pm 5$ to $\pm 100$ VDC Polar:	\$ 1945.00
MPC-1000CR/T TEMPEST (II) TSR-200D	Tempest version of the MPC-1000CR/TSR-200D. Same I/O as MPC-1000T. SBR-100 is standard. TSR-300D, 400D and 600D may be installed:	\$ 2295.00
MPC-1000T/LCO TEMPEST (II) TMS-200	MPC-1000T (II) with LCO-100 and TMS-200 options, which provide input tone range of 300 to 3000 Hz and triple Tone-Pair AFSK Tone Keyer:	\$ 2295.00

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MPC-1000R (MARK II) TERMINAL UNIT

MPC-1000R (II) BASIC-R	Basic-R with dummy TSR-Adapter Assembly. Speed and Memory Control switches are not functional:	\$1895.00
MPC-1000R (II) TSR-200D	The TSR-200D assembly provides Signal Regeneration, Speed Conversion and Digital Autostart:	\$1995.00
MPC-1000R (II) TSR-300D	Signal Regeneration, Speed Conversion, Digital Autostart and ON/OFF Selective Calling:	\$2145.00
MPC-1000R (II) TSR-400D	Provides simultaneous Baudot to ASCII Code Translation of incoming (RO) Baudot Signals:	\$2145.00
MPC-1000R (II) TSR-500D DAS-100	Provides Word Correction, 200 Character FIFO Buffer Memory, Variable Character Rate, TD Inhibit and Blank/Letters Character Generation:	\$2345.00
MPC-1000R (II) TSR-600D	Provides GROUP and STATION Selective Calling with 16 character WRU Answerback Generator:	\$2295.00

The MPC-1000R Mark II contains a Triple Tone-Pair AFSK Tone Keyer. A Dual Keyer version of the R is not available. Consult Dovetron for high-level Polar applications that require a Triple Tone-Pair AFSK Tone Keyer. The TSR-500D/DAS-100 combination is not recommended for systems application.

OPTIONS AVAILABLE FOR MPC-SERIES TERMINAL UNITS

AVS-100*	Automatic Voltage Select assembly permits operation on power mains from 85 to 280 VAC, 40 to 400 Hz:	\$ 45.00
BAL-100	Isolated and Balanced AFSK Tone Keyer Output:	\$ 50.00
BAL-200	Same as BAL-100 with adjustable output level:	\$ 75.00
SR-100	Bit Synchronous Regenerator provides synchronized baud rate clock and EIA/MIL FSK outputs:	\$ 250.00
KOS-100	Keyboard Operated Send assembly provides Keyboard control of companion transceiver & Tone Monitor:	\$ 150.00
LCO-100	Linear Channel Oscillator Option (300 to 3000 Hz):	\$ 150.00
SBR-100	Selectable Baud Rate Option for TSR assemblies:	\$ 50.00
SSD-100K	Solid State Cross Display Retrofit Kit:	\$ 125.00
TMS-200	Triple Tone-Pair AFSK Tone Keyer assembly:	\$ 150.00
TSR-200D	Signal Regeneration, Speed Conversion and Digital Autostart assembly:	\$ 250.00
TSR-300D	TSR-200D Functions with ON/OFF Selective Calling:	\$ 450.00
TSR-400D	TSR-200D Functions with simultaneous RO ASCII Output:	\$ 450.00
TSR-500D	TSR-200D Functions with 200 Character FIFO Buffer Memory and DAS-100 Digital Autostart Module:	\$ 650.00
TSR-600D	TSR-200D Functions with Dual SELCAL & WRU Answerback:	\$ 600.00

TBA-1000 BAUDOT-ASCII CODE TRANSLATOR

TBA-1000 MARK II	Baudot-ASCII and ASCII-Baudot Code Translator with Signal Regeneration, Speed Conversion, 192 Character Buffer Memory and Electronic I/O Bypass:	\$ 595.00
MLB-100	Neutral Loop Bypass Option for TBA-1000 (II):	\$ 50.00

ORDERING INFORMATION

Please specify TABLETOP or RACKMOUNT cabinet, 115 or 230 VAC power mains and preference for American, Australian or European power cord.

If Mark/Space tone frequencies and baud rate of signalling circuits are specified, Dovetron will calibrate the MPC/TBA accordingly.

PRICES AND SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

U.S. Patents: Digital Autostart Circuit 4,243,836.  
Solid State Cross Display 4,229,698.

\*Patent Pending.

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213-682-3705

DOVETRON MPC-SERIES RTTY TERMINAL UNITS

MPC-1000C	Single Tone-Pair Tone Keyer, Neutral Loop Keyer:	\$895.00
MPC-1000CR TSR-200D	Single Tone-Pair Tone Keyer, Signal Regeneration, Speed Conversion, Neutral Loop Keyer and Digital Autostart:	\$995.00
MPC-1000C/DK	<u>UNIVERSAL Systems Model.</u> Same as MPC-1000C with Dual Polar-Neutral Loop Keyer & Mains Select Switch:	\$1095.00
MPC-1000CR/DK TSR-200D	<u>UNIVERSAL Systems Model.</u> Same as MPC-1000CR with Dual Polar-Neutral Loop Keyer & Mains Select Switch:	\$1195.00
MPC-1000R TSR-500 DAS-100	Signal Regeneration, Speed Conversion, Triple Tone-Pair Tone Keyer, 200 Character Memory, Word Correction, Digital Autostart, Variable Character Rate, Blank/LTRS Diddle, Neutral Loop Keyer:	\$1295.00
<u>OPTIONS:</u>	PKC-100 Polar Keyer for use in MPC-1000C, 1000CR and 1000R (Replaces Neutral Keyer):	\$100.00
	TID-100 Station Identifier (CW, Baudot or ASCII):	\$ 50.00
	Consult factory for other combinations for specific requirements.	

ORDERING INFORMATION: Please specify the following with order.

- 1) Tabletop or rackmounting cabinet configuration.
- 2) 115 VAC or 230 VAC power mains operation.
- 3) Mark and Space Tone Frequencies for AFSK Tone Keyer.
- 4) Baud rate for RY Generator.
- 5) Loop Current: 20, 40 or 60 milliamperes.

All prices are FOB South Pasadena, CA 91030.

Shipping Weight: 16 pounds - 7.3 Kilograms.

DELIVERY: Stock to 90 days after receipt of order.

TERMS: 1/2 20 days, Net 30 days, OAC.

Foreign: Payment with order. Bank draft to be  
drawn in U. S. Currency on a U. S. Bank.

U. S. Government & Agencies: Consult Federal Supply Schedule GS-09S-37410,  
Group 58, Part II, FSC Class 5815.

AMATEUR RADIO OPERATORS: Consult Amateur Price List.

Prices subject to change without notice.  
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