SPECIAL SECTION—How To Service CB Radios S1.00 MARCH 1978 Radio Control CS

THE MAGAZINE FOR NEW IDEAS IN ELECTRONICS

Make A Panel Meter A DIGITAL VOM It's Easy To Do

More Build-It Info
PROGRAMMABLE DRUMS
Are Fun To Play

ALSO:

Z-80 Computer Corner
R-E Lab Tests BIC Beam Box
Jack Darr's Service Clinic
Hobby Corner
State Of Solid State
More Hobby Computer Listings
Equipment Reports—

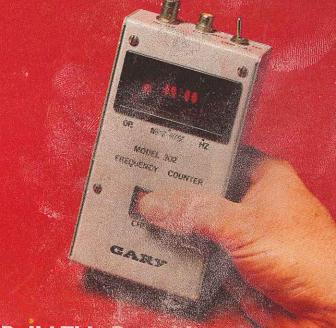
- **★ Sabtronics Digital Meter**
- ★ Motorola HEP Microcomputer Kit

* Tenna Mindl

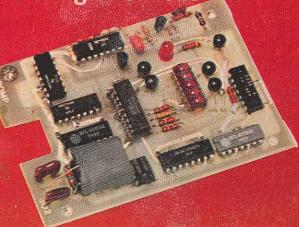


692188 JUN 11024090 14 A DEC78

What's New In POLICE-RADAR DETECTORS A Picture Story



Build This Portable
FREQUENCY COUNTER
With 4-Digit Readout



THIS DIRECTORY GREW TOO LARGE TO FIT INTO A SINGLE ISSUE. So this concluding section had to be held over for this month. Before starting this section we have one correction and one addition to last month's section. The address for the Mits Division of Pertec was incorrect; the proper address is PCC Microsystems, 21111 Erwin St., Woodland Hills, CA 91367.

Also, some gremlins resulted in the listing for ECD not appearing in alphabetical order. So here it is now, at the top of this month's list.

ECD

Makes Micromind, an assembled ready-to-use machine with 8K of memory built around a 6500A microprocessor. Comes complete with an 80-key software definable keyboard; I/O interface board; high-detail graphics and character display processor; power supply, RF modulator and connections for up to four tape recorders plus TV or monitor. Price, \$987.54. Available from ECD Corp., 196 Broadway, Cambridge, MA

Southwest Technical Products

Complete line of hobby computer equipment. Includes 6800 computer complete with 4K of memory. Kit, \$395. Additional memory, \$100 for 4K; \$250 for 8K. Terminal monitor CT-64 features 64-character lines, upper-and-lower-case letters, switchable control character printing, word highlighting, full cursor control, 110–1200 Baud serial interface. Kit, \$325; 12-MHz monitor, \$175.

MF-60 dual mini-floppy kit with controller, chassis, cover, power supply, two disc drives, \$995. MF-6X kit expands unit to four drives, \$850. Other peripherals include PR-40 alphanumeric line printer that prints 40 characters per line at 75 linesper-minute. Price, \$250. Southwest Technical Products Corp., 219 W. Rhapsody, San Antonio, TX 78216

Space Byte

A single-card self-contained 8085 CPU for the S-100 bus. Operates at 3 MHz using 450-nS memory. Two on-board RS-232C serial I/O ports with software-selectable Baud rates. Also 16K RAM boards with on-board voltage regulators for S-100 systems. Prices not available. Space Byte Corp., 1720 Pontius Ave., Suite 201, Los Angeles, CA 90025

Spectrum 8

Complete in one cabinet, this computer system includes 8085 microprocessor, video terminal that produces 80 characters by 24 lines, cassette drive unit, keyboard and software and 16K RAM. Price, \$2195. Spectrum 8, 3750 E. Foothill Blvd., Pasadena, CA 91107

STM Systems

Baby I microcomputer you can fit into an attache case. 6502-based system with 2K of RAM \$850, assembled only. With 4K RAM, \$1000. 4K RAM add-on, \$205. Floppy diskette drive with power supply and controller, \$750. STM Systems Inc., P.O. Box 248, Mont Vernon, NH 03057

Szerlip Enterprises

No main frame here, only a PROM setter for 1702A and 2708 PROM's. Plugs into S-100 computer. Complete kit, \$210; assembled, \$375. Szerlip Enterprises, 1414 West 259 St., Harbor City, CA 90710

Technical Design Labs

ZPU card for S-100 bus machine features Z-80 microprocessor with two on-board clocks. Kit, \$269; assembled, \$345. Z16 memory module with 16K on board, but can be purchased in 4K increments. Uses 4200 memory IC's. 4K kit, \$169; 8K, \$295; 12K, \$435; 16K, \$574; 4K expansion kits, \$140. Systems monitor board, \$295 for kit, \$395 assembled. Xitan microcomputer systems. Xitan Alpha I mainframe with ZPU board, system monitor board \$769 for kit, \$1039 assembled. Alpha 2 expands Alpha 1 by including Z16 memory module and software package. Kit, \$1369; assembled, \$1749. Technical Design Labs, Research Park, Building H, 1101 State Rd., Princeton, NI 08540

Technico I

Single board 16-bit 9900 microprocessor. Just hook up power supply and terminal. Kit, \$299; assembled, \$399. Comes with 1K of PROM, 512 bytes of RAM. Expands on-board to 6K, can address up to 32K words. Technico, Inc., 9130 Red Branch Rd., Columbia, MD 21045

Telpar

Model PS-40 printer offered as a silent Teletype alternative. Offered with multifunction interface (F-8 microprocessor). Assembled only, \$400. Power supply, \$100; case, \$100. Telpar, Inc., 4132A Billy Mitchell Rd., P.O. Box 796, Addison, TX 75001

Thinker Toys

Developers of the *WunderBuss*, a 20-slot S-100 busboard that includes a *Noiseguard* noise-squelching system. Kit, \$76, with 10 edge connectors, \$120; with 20 edge connectors, \$154. Also available: an 8080 CPU/front panel kit, \$250. Speakeasy I/O board kit (three cassette channels, parallel and serial ports), \$120. 8K dynamic RAM kit, \$159; assembled, \$188. 4K static memory kit, \$109. Thinker Toys, 1201 10th, Berkeley, CA 94710

TLF

Assembled microcomputer with 8K of memory, 2K of control PROM, tape controller, buffered external bus and 110 Baud serial interface. Fully assembled and tested for the *Mini 12*, a 12-bit machine, \$895. A 24-line parallel interface also available. Digital cassette storage system complete with two tape drives, \$795. TLF, P.O. Box 2298, Littleton, CO 80161

Vector Graphic

Hobby computer systems and accessories, including *Vector 1* computer consisting of custom cabinet, 18-slot motherboard S-100 bus, power supply, 8080 CPU board, PROM/RAM board with 1K RAM, room for 2K ROM. Kit, \$619; assembled, \$849. 8K memory boards assembled, \$265 and \$275. Vector Graphic, Inc., 790 Hamshire Rd., Westlake Village, CA 91361

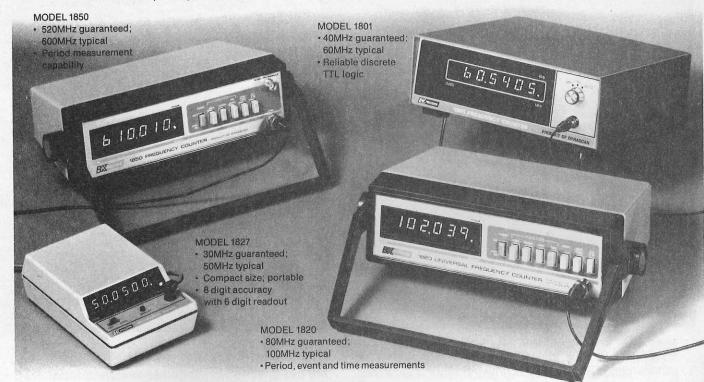
Xybek

A *Prammer* memory board on an S-100 bus card. Contains up to 1792 bytes of EPROM, 256 bytes of RAM, an integral EPROM programmer. Kit, \$209; assembled, \$289. Extension kit, \$15. Xybek, P.O. Box 4925, Stanford, CA 94305

Now you can save money and get the counter you want— A frequency counter immediately applications. All have been conceived as cost-effective

should deliver all the performance you expected when you placed the order. If the counter is a B&K-PRECISION you'll be getting that plus some equally important benefits—a price that you can easily afford and off-the-shelf delivery.

B&K-PRECISION has engineered a line of fullfeature frequency counters to suit most conceived as cost-effective answers to frequency measurement needs in communications, lab, field and plant applications. Every B&K-PRECISION counter features: autoranging, liberal input overload protection, a minimum of 1Hz resolution, conservative specifications, and easy-to-read LED displays.



At the top end of our line is the new Model 1850, very conservatively rated at 520MHz. Features include: TCXO time base...Period measurements from 5Hz to 1MHz...Leading zero suppression...Bright .43" LED display... Gate times from 10 ms to 10 seconds...\$450.

The **1820** Universal Counter is one of the most versatile counters available at any price. Frequency measurement typically extends beyond 100MHz...Period measurements from 5Hz to 1MHz . . . Period average, auto and manual positions . . . Elapsed time measurements to 9999.99 seconds (plus overflow)... Totalizes event counts to 999999 (plus overflow)... **\$260**.

At only \$120, the 1827 portable frequency counter is slightly larger than a pocket calculator. 30MHz guaranteed; 50MHz typical . . . Battery saver for all-day field use . . . Full range of optional accessories available.

The **1801** is a rugged frequency counter designed for production line and maintenance applications. Readings to 40MHz guaranteed; 60MHz typical . . . Easy to use and read...Wide range input eliminates the need for level adjustments...\$200.

Isn't it time you stopped sacrificing features and performance for price? See your local distributor for immediate delivery.

PRECISION DYNASCAN CORPORATION

6460 W. Cortland Avenue, Chicago, IL 60635 312/889-9087 In Canada: Atlas Electronics, Ontario International Sales: Empire Exporters, Inc., 270 Newtown Road, Plainview, L.I., NY 11803

CIRCLE 84 ON FREE INFORMATION CARD