

## TIMERS

We have an ever-changing inventory of various timers in stock. Call about the availability of the one you're looking for.

### RESET TIMER

CYCL-FLEX Series by Eagle Signal, #HP510A6. Timing range is 1 to 30 hours. Can configure to operate in different modes. Four groups of SPDT contacts provide great application flexibility. Contact group includes delayed action function, adjustable over range of 9 to 27 minutes. Contacts rated 10 amps resistive @ 120VAC and 5 amps resistive @ 240 VAC. Motor and clutch operate on 120 VAC 60 Hz. and draw approx. 13 VA. Timing interval begins with application of power. Device either times out or re-cycles depending upon the way contacts are configured. Wiring diagram included to show possible hook ups. Front panel has green indicator lamp to indicate motor activation. Red flag pointer on dial face indicates time remaining in timing cycle. Knob driven black pointer indicates set timing interval. Dial face has black background on outer edge and orange numerals. Center area has clear anodized finish with black tick marks. Timing unit is removable from the panel mounted housing. Barrier screw terminals on the rear for all electrical connections. Designed to mount in a 3-3/16" round panel opening. Dimensions: 3-13/16" wide x 4-1/4" high x 5-3/4" deep. Behind panel depth is 4-1/8".

Stock #TM2301

### FIXED CYCLE DELAY TIMER

DELTAOL, #46415-61. This is a motor driven time delay relay. This unit has a motor driven cam and solenoid mechanism that provides a time delay from the moment that power is applied, until the internal microswitch activates. The time delay interval is 60 seconds when operating on 60 Hz and 72 seconds on 50-Hz. The timer resets itself when input power is removed. Re-application of power initiates the next timing cycle. Motor input is 120 VAC 50/60 Hz @ 3 watts. Switch contacts are SPDT and are rated 20 amps 120 VAC. The microswitch has 1/4" quick connect terminals. The motor has 6" wire leads with 1/8" quick connectors for electrical connections. The frame of the unit has mounting ears which are provided with 3/16" clear mounting holes. Dimensions: 3-3/8" wide x 3-1/8" high x 2-3/8" deep.

Stock #TM2150

## COUNTERS

### 4-FIGURE COUNTER

MERCURY, #CE40 BS481. Manual reset. Rated: 24 VAC 60 Hz, 7 watts. Has white numerals on a black background. Has a mounting bracket on the front face for panel mounting. The mounting bracket has two #4 x 40 tpi. Tapped holes. Dimensions: 2-1/32" wide x 1-5/8" deep x 2-3/4" high.

Stock #EC2150

### 5-FIGURE COUNTER

DURANT, #5-Y-41402-403-MEU. Non resettable counter. Count on unit received, may vary from picture. Actuating coil is rated 24 VDC, 3 watts. White numerals on a black background. Faceplate is black. Designed for rear mounting. 14" long connecting wires. Dimensions: 1-19/32" wide x 1" high x 2-1/4" deep.

Stock #EC2301

### 6-FIGURE COUNTER

DURANT, #6-Y40896-406-ME-U. 24 VDC, speed 1000 cpm, 3 watts. Black on white background. Back mount. Dimensions: 1-5/8" wide x 1" high x 2-1/4" deep.

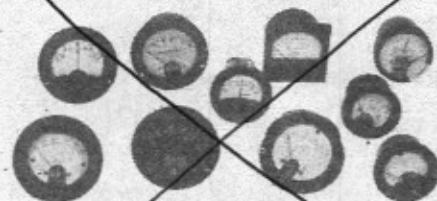
Stock #EC3006

### 7-FIGURE COUNTER

SODECO, #ETO666SP. Swiss made. Rated 100/115 VAC 50/60 Hz 3.5 VA. Count varies from picture. Not resettable. White numerals on black background. 6" long connecting leads with 3/16" female quick connect terminals. Designed to mount in a 1-31/64" wide x 15/16" high hole. Mounting spring/retainer supplied. Dimensions: 1-21/32" wide x 1-3/32" high x 2-3/4" max. deep.

Stock #EC9900

## METER ASSORTMENT



These meters are removed from equipment. Excellent for experimental use and prototype work.

Stock #MA9900

## ELAPSED TIME INDICATOR



### ELAPSED TIME INDICATOR

CRAMER, #636WE100AA0008A. Input: 115 VAC 60 Hz 2.7 watts. Indicates to 9999.9 seconds. The indicator is resettable via a front mounted reset button. Has white numerals on a black background, except the 1/10 second numeral which has black numerals on a white background. Has 5" long flexible lead connections. Designed to mount in a 2-7/32" dia. round hole. A square mounting bezel and mounting hardware are provided. The mounting ring is 2-15/16" sq. x 1/4" thick and has 1/8" dia. mounting holes in the corners. Dimensions: (indicator only) 2-9/32" dia. max. x 3-1/2" max. overall depth.

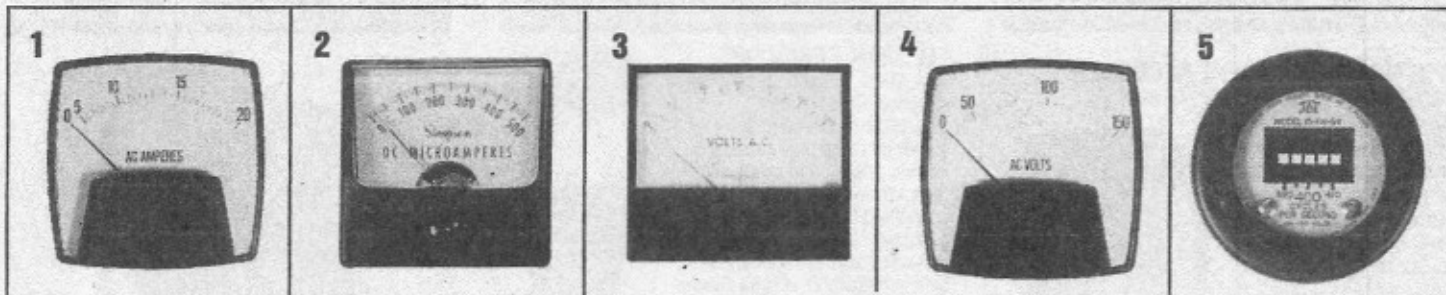
Stock #RTM9901



**MONEY!** This is only a fraction of what you might save if you take advantage of some of the fabulous bargains contained in this catalog. (It also makes a cute picture to fill space of an item that was sold out very close to the printing deadline.)

# METERS

METERS



## AC VOLTMETER WITH RELAY CONTACTS

White face and black numerals. Range is 0 to 250 VAC. Built-in rectifier that allows the meter to be connected directly to the AC source without an external rectifier or scaling resistor being required. Pointer contacts that can be used to indicate under or overvoltage conditions. Contact set points are adjusted via a concentric knob arrangement located on the meter front cover. These contacts are very delicate and will not carry any significant current without damage to the system. Some sort of transistor or logic level buffer must be supplied by the user. Contacts and their pointers can be moved out of the way if not used. Clear plastic face cover. Mounts in a 2-7/8" round panel opening. Four threaded studs on the rear for mounting. 5 rear mounted threaded studs and associated hardware provided for electrical connections. Dimensions: 3-3/4" wide x 3-3/8" high x 2-13/16" max. deep. When panel mounted the rear of the unit extends about 1-13/16" beyond the back surface of the panel.

Stock #MT2150

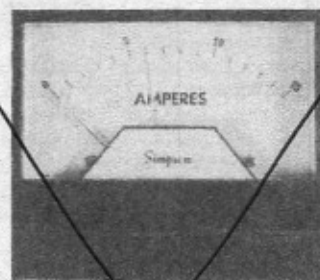
RANGE	MANUFACTURER	DIMENSIONS	FIG.	STOCK NO.	PRICE
0-10	MODUTEC	3-1/2" rect.	1		
0-200	MODUTEC	3-1/2" rect.	1		
0-500 DC Microamperes	SIMPSON	1-3/4" sq.	2	MT2152	\$19.95
0-10	GE	3-5/16" x 3-3/4"	3		
	MODUTEC	3-1/2" rect.	4		
<b>FREQUENCY METERS</b>					
380-420 11 Reed	FRAHM	2-11/16" dia. X 3" long	5		



## 0-100 MICROAMP FACELESS METER

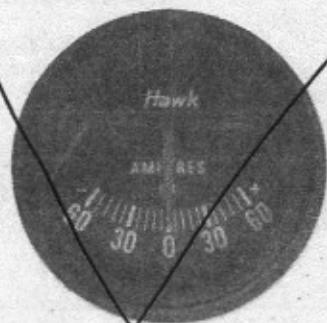
High quality moving coil meters which do not have a dial face. Ideal for classroom demonstrations or lab projects. Useful in applications requiring a custom calibrated meter. Face is black with a clear cover. Pointer has arrow shaped end. Mounts in a 2-3/4" nom. round panel hole. 9/16" #6X32 tpi male studs on the rear. Electrical connections are via #10x32 tpi male studs on the rear. Dimensions: 6" wide x 4-1/4" high x 2-1/8". Depth required behind the panel to mount this meter is 1-11/16 nom.

Stock #MT2050



**RELAY METER SIMPSON, #S60049.** 0-5 amps DC meter relay. Input power 28 VDC. This unit measures the input amperage and trips a relay within when the set point has been reached. Set point adjustable from 0-15 amps. Wiring diagram included. Electrical connections via solder pins on rear face. Dimensions: 4-3/4" wide, x 4-1/8" high x 5-1/4" deep panel mount in a 2-3/4" hole.

Stock #MT9355A



## AUTOMOTIVE AMP METER

**HAWK, # 29023500.** Automotive style panel mounted amp meter with a 1-3/4" black face with white numerals. Scale reads ± 0-60 amps. DC. Minimum subdivision is 6.0 amps. The scale main divisions are numbered at 0, 30, and 60 amps. The indicating pointer is fluorescent red. The gauge has provision for illumination via a rear mounted 12 VDC lamp. Screw studs on rear for connections. Mounts in a 2-1/16" round hole. Dimensions: 2-9/32" outside dia. x 2-3/8" deep.

Stock #MT2400

W... Colorado Blvd. in Pasadena, We have  
S... in this catalog. Our hours of operation  
... 8:00 AM to 5:00 PM

## CHART RECORDERS

### FOUR CHANNEL EVENT RECORDER

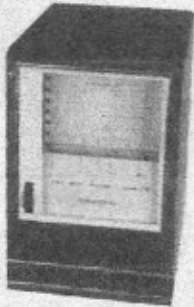
ESTERLINE ANGUS, #E00301-A4-270.

Useful for recording up to 4 on/off events simultaneously on pressure sensitive graph paper. Chart drive motor is rated 110 VAC 60 Hz. Event solenoids are 24 VDC at 52 mA per channel. Chart speed is 1" per hour.

Sturdy screw terminals on the back panel for event inputs. AC power for chart drive is via attached 7' long AC line cord

terminated with a standard 3-wire AC plug. Usable for inputs cycling on and off up to 20 times a second. Fully cased and self-contained. Dimensions: 5-5/8" high x 3-5/8" wide x 4-3/8" deep. Weight 3-1/2 lbs. New. Supplied with mounting hardware and instructions.

Stock #CR8600



### FOUR CHANNEL EVENT RECORDER

RUSTRAK, #292-4. Simultaneously records up to four on/off events. Four individual channels with 18-24 VDC 70 mA 309 coil resistance actuators. Response time of any pen is 10 milliseconds, which gives a permanent rectangular record pattern on pressure sensitive chart paper. Chart drive is 115 VAC 60 Hz 2 rpm 3 watts. Chart speed is 1" per hour. Gears to change chart speed are available from Rustrak. Dimensions: 3-1/2" wide x 5-1/2" high x 4-1/2" deep. New, boxed. Supplied with one roll of chart paper and instructions.

Stock #CR8401



### CHART RECORDER

SOLTEC, #3812.

Modular chart recorder that allows two channels of continuous trace recording. Pen speed of 185 cm-sec and repeatability of 0.15% FS. Frequency response is 1.5 Hz (-3dB). Recording width is approx. 10". Chart read direction is reversible. The chart speed is step adjustable over the range of 1, 2, 4, 6, 10, 20, 40, 60 cm-min or cm-hr. The recorder has plug-in modules for the input channels. Supplied with a 12-range voltage module with calibrated ranges of 1, 2.5, 10, 20, 50, 100, 500 mV and 1, 2, 5, 10 VDC. Input impedance is 1.0 meg ohm. Second module supplied is a linearized thermocouple temperature module. Module is designed for use with Type 1 thermocouples (Cu/Cu-Ni). Temperature module has built-in ICE point calibration. NOTE: We do not have the sensors for this unit or the operating supplies such as chart paper and pens, but these are readily available from the manufacturer. Dimensions: 17-1/4" wide x 5-3/16" high x 13-7/8" deep. Weight 20 lbs.

Stock #CR9950



## MILITARY EQUIPMENT

### I.R. TANK PERISCOPE

Type M-24. Rugged military construction. Contains two independent infrared image converter tubes plus correction lenses, prisms, and eyepieces. Binocular viewing system directly connected to prism-type periscope. Image tubes have dynamic focus provided by a built-in adjustable voltage divider. Requires 10 to 15 kV at low current for operation. (Sorry, we do not have power supplies or data required for tube operation.) Dimensions: 18" high x 9" wide x 4-1/2" thick. Weight 17 lbs.

Stock #ME9900



### TRANSMITTER AND RECEIVER SET

Set consisting of #AN/PRT-4 transmitter and companion receiver #AN/PRR-9 (XE-9). Compact solid state receiver which

is designed to be mounted on military helmet. Supplied with optional plug-in earphone.

Frequency range 47-57 MHz. FM crystal controlled. Requires 3.2 V military battery Type BA-4534/U for operation. (Not supplied nor can C&H Sales supply.) Unit is supplied with misc. accessories, manual and antenna. These units are new. Note cautions about use—may be prohibited by FCC regulations. Sold by C&H Sales as a military collectible only.

Stock #ME9503

(Includes Transmitter Below)



### COMPACT MILITARY SOLID STATE HANDHELD TRANSMITTER #AN/PRT-4.

Two output channels for tone and voice. FM modulated. Freq. range 47-57 MHz. Output power channel 1: 4-50 mW. Output power channel 2: 50-250 mW. Crystal controlled. Requires 12 V battery Type BA-399/U for operation (not supplied nor can C&H Sales supply). Provided with misc. accessories, manual and antenna. NOTE: Operates on military frequencies and operation may be prohibited by FCC regulations. Check with FCC office in your area before attempting operation. Sold by C&H Sales as a military collectible only. These units are new. Dimensions: 7-7/8" high x 3" wide x 2" deep.

Stock #ME9500



### STABLE PLATFORM AN/AIN-6

KEARFOOT INSTRUMENT, #B 2606-01A. Part of an airborne navigational system. Contains gyro units plus many synchro-type devices, plus Gimbal mountings. Can be disassembled for many useful parts. Dimensions: 11-1/2" high x 11-1/2" wide x 11-1/2" deep. Weight 30 lbs.

Stock #ME9057



## AIRCRAFT INSTRUMENTS



### RADIO ALTITUDE INDICATOR

#06163, #C-2236/APN-117. Radio altitude indicator. Reads 0-1000 feet. Has pull to turn knob which sets altitude limit flag. A red indicator light is located on the lower right quadrant of the instrument. Face has white numerals on a black background. New condition. 3-1/8" standard instrument mounting.

Stock #IN9850



### INDICATOR

#ID-637/ARN. Indicator azimuth 28 VDC. Excellent condition.

Stock #IN9101

### COURSE INDICATOR

#ID-250A/ARN. Manufacturer's part #36104-1L-11-A2, Stock 6234-36104-1L-11-A2.

Stock #IN8300

