The Economy 5725A Frequency Counter is the lowest priced, highest performance-to-value, portable, fully assembled and operating instrument in its category today. It has been designed for general purpose application in industrial, communications and laboratory measurements. Frequency is read directly, to 5 places, in KHz and MHz, with simple switch selection, over the very broad range of 5 Hz to more than 80MHz. The 5725A time-base is derived from a 1MHz crystal with a <2ppm per month aging rate specification. Totalizing is accomplished in the Count Mode with pushbuttons providing Start, Stop, and Reset functions. The Economy 5725A also makes Ratio measurements with its capability to accept external clock signals from approximately 10KHz to 2MHz.

Controls and inputs are easy to understand and use, making the 5725A a simple unit to operate. Separate LED indicators display Gate operation, or the occurrence of Over Ranging. The sensitivity of 75mV to 40MHz and 120mV to over 80MHz is superior to lower gain competitive units, and minimizes the need for conditioning low level signals. Screwdriver adjustment of sensitivity is provided on the front panel. Five gas discharge display tubes show bright half-inch high numerals, comfortably readable up-close or at a distance, and display storage provides steady non-blinking indications changing only when up-dating is needed.

Built for rugged use, packaged in a high-impact strength case, rack mountable for systems use, the 5725A Economy Frequency Counter is meant for long trouble free performance in lab, factory, or field environments. Its low 10 watt power requirement makes it operable from car batteries, or other DC sources, with practically any inverter. Compare bandwidth, sensitivity, functions available, convenience, readability, construction, reliability and there can be but one choice - the Ballantine Economy Model 5725A priced at $325.00.

OEM/QUANTITY DISCOUNTS
Qualified Original Equipment Manufacturers, or large quantity users can obtain further significant savings with a price schedule available on a Purchase Agreement. Contact Ballantine's marketing department for details. Ten day evaluation loaner sent on receipt of your memo purchase order.

BALLANTINE LABORATORIES, INC.
FOUR DECADES OF INNOVATION IN ELECTRONIC INSTRUMENTATION
FREQUENCY MODE
Input: Via front panel BNC connector
Frequency Range: 5 Hz to 80 MHz
Gate Time: 1 μsec to 1 sec
Accuracy: ±1 count ± time base accuracy
Readout: KHz or MHz with positioned decimal point
COUNT MODE
Input: Via front panel BNC connector
Frequency Range: 5 Hz to 80 MHz
Counter Range: 1 to 10^5 counts
Gate Time: Manually selected. When the START pushbutton is pressed, the count is initiated and continues. When the STOP pushbutton is pressed, the count stops and the display holds the number accumulated.
Accuracy: Absolute
Readout: Dimensionless

FREQUENCY RATIO MODE
Input (F1): Front panel BNC connector
Input (F2): Rear panel BNC connector
Measure: F1/F2 with the FREQ switch set to MHz and (F1/F2) X 10^3 when set to KHz
Number of cycles of F2 averaged: 10^3 with the FREQ switch set to MHz and 10^6 when set to KHz
Readout: Dimensionless

INPUT CHARACTERISTICS
FRONT PANEL
Impedance: 1 Megohm shunted by 25pF approx.
Frequency Range: 5 Hz to 80 MHz
Sensitivity: 75 mV rms from 5 Hz to 40 MHz
Input Requirement: Standard TTL (nominally 1 V to 5 V p-p), DC coupled

REAR PANEL
Input Requirement: Standard TTL (nominally 1 V to 5 V p-p), DC coupled
Frequency Range: DC to 5 MHz

OUTPUT CHARACTERISTICS
Frequency: 1 MHz (from Int. Crystal Osc.)
Amplitude: 5 volt approx.
Coupling: DC

DISPLAY CHARACTERISTICS
Type: 5 long-line glow discharge display tubes
Display Storage: Prior reading is held while new reading is being made. Time between successive measurements is 100 msec. The storage is disabled in the COUNT mode.
Gate: LED indicator, lights up when the counter gate is open
Decimal Point: Fixed for readings in KHz and MHz
Overrange: LED indicator, lights when the counter capacity is exceeded
Manual Reset: Front panel pushbutton switch resets the display and all registers to zero

TIME BASE
Crystal Frequency: 1 MHz
Aging Rate: Less than 2 parts in 10^6 per month
Temperature Stability: Less than 2 parts in 10^6 per °C

RATIO
Measures ratio of signal F1 (5Hz to over 80MHz) at front panel BNC, to signal F2 (approximately 10kHz to 2MHz) at rear panel BNC with rear switch set to EXTERNAL clock. Display is ratio F1/F2 X 10^3 with KHz setting.

NOTES
1) With rear panel switch on INTERNAL clock, the 1MHz internal crystal clock frequency is available at the rear BNC for use as a quick "confidence" check of the 5725A, or to clock other instruments.
2) With the rear switch on EXTERNAL clock, rear BNC can be used for input of signal F2 for ratio measurements as described, or except external clock signal for higher stability, or other special time bases.

ACCESORIES AVAILABLE
Probe Kit, 10X, Attenuator, 6 ft.
Part No. 10061A
Price $32.00

Probe Kit, coax, RG58C/U, BNC/BNC, 4 ft.
Part No. 12249D
Price 7.50

Probe Kit, coax, RG58C/U, BNC/Alligator, 4 ft.
Part No. 12250D
Price 8.50

Termination, Feedthrough, 50 ohm, BNC/BNC
Part No. 12630A
Price 12.50

Filter, low pass (1 kHz)
Part No. 12631A
Price 35.00

Rack Mounting Kit for 1 or 2 5725A Side/Side
Part No. 800-05
Price 40.00

Half-Rack Cover for 800-05
Part No. 381000551L
Price 10.00

PRICE: $325.00 f.o.b. Boonton, NJ
OEM/Quantity Discounts to qualified users on price schedules available with firm Purchase Agreement. Check Ballantine Marketing Department for details.

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Four Decades of Innovation in Electronic Instrumentation

U.S. Sales price f.o.b. Boonton, New Jersey. Specifications and prices subject to change without notice.