

DISPLAY

Six in-line neon numerical indicators with decimal points for frequency and multiple period

FREQUENCY MEASUREMENTS

2Hz to 32MHz via input A with gate time of 1mS to 10S in decade steps. Decimal point automatically positioned to indicate kHz.

TIME MEASUREMENT

Timing units from 1 μ S to 10S in decade steps. Start and stop inputs can be A to A (equivalent to single period), B to B or B to C or by push button.

MULTIPLE PERIOD

From 10 to 10⁶ periods in decade steps within frequency range 2Hz to 100kHz.

COUNT

2Hz to 32MHz via input A with start and stop controls via inputs B to B or B to C, or by push button.

INPUT A

SENSITIVITY Three position attenuator providing 10mV, 100mV and 1V RMS sensitivities, from 2Hz to 32MHz.

INPUT IMPEDANCE 1M Ω /approx. 18pf, suitable for use with oscilloscope type probes.

In 10mV position, protective limiting reduces input impedance to 200k Ω /approx. 120pf, with signals over 1V RMS.

MAXIMUM INPUT

Up to 20kHz 250V DC, 250V AC RMS

Over 20kHz 30V AC RMS in 100mV and 1V position
3V AC RMS in 10mV position.

INPUTS B AND C

SENSITIVITY 1V peak negative going, fall time between 1nS and 100nS

MAXIMUM INPUT $\pm$ 3V peak.

Inputs B and C operative on time and count functions only

FREQUENCY STANDARD

INTERNAL 1MHz crystal oscillator, oven controlled at +65 $^{\circ}$ C. Set to 1 in 10⁶ at +25 $^{\circ}$ C. Stability $\pm$ 5 in 10⁶ from 0 $^{\circ}$ C to +50 $^{\circ}$ C after one hour warm-up period.

EXTERNAL Via rear panel jack socket, coupled through 400V pk. working blocking capacitor.

SENSITIVITY

Sine Wave 0.5V to 10V RMS within frequency range 10kHz to 2MHz

Pulse 1V to 20V p.t.p. within frequency range 10Hz to 2MHz

The negative duration must not be greater than ten times the positive duration.

CHECK FACILITY

The 1MHz Standard is counted for the gate time selected.

DISPLAY TIME

Continuously adjustable from 0.1S to 4S, or infinite.

RESET

INTERNAL Automatically at end of display period.

EXTERNAL By push-button or external contact closure to ground.

Open circuit voltage +18V maximum. Short circuit current limited to 15mA peak.

TIME UNITS OUTPUT

Pulses are available at rear panel socket derived from frequency standard via decade dividers. Time units of $1\mu\text{S}$ to 10S are selected by time units switch. Amplitude approximately 3V p.t.p. from non-linear high impedance. A separate 1MHz output is also provided, via a further rear panel socket of approximately 2V p.t.p. from high impedance and is available at all counter settings.

DATA OUTPUT

Display data is available at pins on the printed circuit board. Format is 8421 BCD positive going, negative true from high impedance.

POWER SUPPLY

100 to 125V, 200 to 250V, 45 to 65Hz, 30VA

OPERATING TEMPERATURE RANGE

0 to +50°C

ACCESSORIES SUPPLIED

One 50Ω BNC/BNC Connector PL43

One 50Ω BNC/Clips Connector PL44

One miniature Jack Plug Part No. 2727

Three 4 mm Plugs Part No. 1244

One Instruction Manual Part No. 25883

DIMENSIONS AND WEIGHT

11" (28cm) wide, $5\frac{3}{4}$ " (15cm) high, $9\frac{7}{8}$ " (25cm) deep overall

10½lb. (4.8kg)