

## DISPLAY

8 x 10cm rectangular mono-accelerator c.r.t. at 2kV e.h.t. Trace Rotation by front panel preset.

## VERTICAL DEFLECTION

Two identical input channels CH1 and CH2.

**Bandwidth** (−3dB)

d.c. to 20MHz (2Hz to 20MHz on a.c.)

**Sensitivity** 2mV/cm to 10V/cm in 1–2–5 sequence.

**Accuracy** ±3%

**Variable Sensitivity** > 2.5:1 range allows continuous adjustment of sensitivity from 2mV/cm to 25V/cm.

**Input Impedance** 1MΩ/28pF approx.

**Input Coupling** DC-GND-AC

**Input Protection** 400V d.c. or pk a.c.

## DISPLAY MODES

**Single Trace** CH1 or CH2

**Dual Trace** Chopped or Alternate modes automatically selected by the T.B. switch. Between 0.5μs/cm and 0.2ms/cm the ALTERNATE MODE is selected. While on ranges slower than 0.2ms/cm CHOP MODE is selected. The CHOP frequency is 500kHz.

**Add** CH1 and CH2 added to give the algebraic sum of the two channels.

**Invert** CH2 CH2 may be inverted. When used in conjunction with Add mode it gives the algebraic difference of the two channels.

**X–Y** CH2 input gives Y deflection and CH1 input gives X deflection.

**Bandwidth** (−3dB) DC to 1MHz with less than 3° phase shift at 50kHz.

## HORIZONTAL DEFLECTION

**Timebase** 0.5μs/cm to 0.2sec/cm, 18 ranges in 1–2–5 sequence

**Accuracy** ±3%, (to 200ns/cm)

**X Expansion** x 10 push button gives fastest speed of 50ns/cm. Accuracy ±3% (50ns/cm range ±5%)

**Variable Sweep** > 2.5:1 allows continuous coverage from 0.5μs/cm to 0.5sec/cm.

## TRIGGER

Variable level control with Bright Line ON/OFF facility. With Bright Line on, the timebase free-runs when insufficient signal (20Hz–20MHz) is present or when the selected level is outside the range of the input signal.

**Source** Internal CH1 or CH2 or External.

**Slope** + or −.

**Coupling** DC, AC or TV (active sync. separator with line/frame selected by T.B. switch between 50 and 100μs/cm).

**Sensitivity**

Internal: DC coupled 2mm to 2MHz, 5mm to 20MHz.

AC coupled 2mm, 10Hz–2MHz.

5mm, 4Hz–20MHz.

External: DC coupled 100mV to 2MHz, 400mV to 20MHz.

AC coupled 100mV, 10Hz to 2MHz,  
400mV, 4Hz to 20MHz.

**External Input Impedance** 100kΩ/10pF approx.

**External Input Protection** 250V d.c. or pk, a.c.

## ADDITIONAL FACILITIES

**Calibrator** 1V, 2% squarewave at approx. 1kHz.

**Ramp Output** Approx. +3.5V ramp from 5kΩ.

**Z Mod. Input** DC coupled, 2V visible mod. sensitivity, +40V cut-off sensitivity, input impedance 10kΩ/10pF approx.

Maximum input 100V d.c. or pk, a.c.

## SUPPLY

100V, 120V, 220V and 240V ± 10%

45 to 440Hz approx. 40VA.

## SAFETY

Designed for I.E.C.348 Cat. 1.

## OPERATING TEMPERATURE RANGE

0 to +50°C (+15 to +35°C for full accuracy)

## DIMENSIONS

140 x 305 x 460mm

## WEIGHT

6kg approx.

## ACCESSORIES SUPPLIED

Manual P.N. 80-OS300

Mains lead P.N. 402001

## OPTIONAL ACCESSORIES

### Probe Kit PB12

A passive probe kit with switched X1 and X10 attenuations. X10 attenuation input impedance is 10MΩ/11.5pF.

### Probe Kit PB13

A X10 passive probe with 1.5m of cable. Input impedance 10MΩ/11.5pF.

### Viewing Hood

P.N. 41179.

### Trolley

Type TR7. General Purpose.

### Protective Carrying Case

P.N. 42610 A strong case which completely encloses the oscilloscope with 3 thicknesses of padding covering the front panel.

### Tube Option

Long persistence c.r.t. P7 phosphor.

### Rack Mount Kit

P.N. 450070.

### Front Cover

P.N. 450240.