

- **COMPACT SIZE—LIGHT WEIGHT**
- **DUAL TRACE, FET INPUTS**
- **DESIGNED FOR SEVERE ENVIRONMENTS**
- **AC AND AC/DC VERSIONS**
- **UP TO 5 HOURS OPERATION FROM INTERNAL BATTERY PACK (AC/DC VERSION)**
- **ILLUMINATED PARALLAX-FREE GRATICULE**



The Type 422 is a portable dual-trace oscilloscope that combines small size and light weight with the ability to make precise waveform measurements. It weighs under 22 pounds and is ruggedly constructed to withstand shock, vibration, and other extremes of environment. Solid-state design, using FET input circuitry, provides minimum drift and fast stabilization time. No longer need measurements be compromised due to adverse field conditions; the Type 422 brings the precision of the laboratory to the field.

Two models are available. One operates on AC; the other on AC or DC, with an optional battery pack providing up to 5 hours operating time for completely portable operation. The AC model is also available as Type R422, arranged in a rack-mount panel assembly with a hinged-door compartment for storing accessories. The hinged door can be removed to allow the installation of a second Type 422 for applications that require two instruments. The entire assembly is mounted to the rack with slide-out tracks.

CHARACTERISTIC SUMMARY

VERTICAL

(2 Identical Channels)

BANDWIDTH—DC to 15 MHz.

RISETIME—24 ns.

CALIBRATED DEFLECTION FACTOR—10 mV/div to 20 V/div.

INPUT RC—1 megohm paralleled by 33 pF.

HORIZONTAL

CALIBRATED TIME BASE—0.5 μ s/div to 0.5 s/div.

X10 MAGNIFIER—Extends fastest time-base to 0.05 μ s/div.

EXTERNAL INPUT—1 V/div to 100 V/div, DC to 500 kHz.

CRT

DISPLAY AREA—8 x 10 divisions (0.8 cm/div).

ACCELERATING VOLTAGE—6 kV.

PHOSPHOR—P31.

OTHER

AMPLITUDE CALIBRATOR—0.2 V peak to peak, internally; 2 V peak to peak, front-panel jack; 1-kHz squarewave [approx].

POWER OPTIONS—

AC Model: 90 to 140 VAC or 180 to 280 VAC, 45 to 440 Hz, approx 100 W. AC/DC Model: AC mode—92 to 137 VAC or 184 to 274 VAC, 45 to 440 Hz, maximum 30 W. DC mode—11.5 to 35 VDC, maximum 26 W. Also accepts 24-V battery pack.