2225 OSCILLOSCOPE

Real economy coupled with unique real-time performance.

ECONOMICAL WITH HIGH-END FEATURES

The two-channel 2225 contains features usually found in more expensive instruments. For example, the new low-noise vertical system operates at 500 μV/div. You also get horizontal alternate sweep magnifications of X5, X10, and X50. These allow you to perform most measurements typically associated with dual time base scopes.

HANDS-FREE TRIGGERING

The 2225 provides the convenience of Tek’s “hands-free” triggering, including HF and LF reject trigger filtering, TV line and field triggering. The single-sweep function is very useful for babysitting waveforms and waveform photography.

DC OPERATION

Two 2225s offer you the choice of battery power or external dc operation. Option 07, is an internally mounted inverter which permits the 2225 to be powered by external dc sources ranging from 11.8 VDC to 30 VDC. The second, Option 03, includes the inverter and the external, rear-mounted 1104A battery pack. This provides at least three hours of operation under battery power. The integrated charger allows operation during the charging cycle. These options are also available on the 2211 and 2214.

CHARACTERISTICS

VERTICAL SYSTEM (2 Identical Channels)

Bandwidth (3 dB) and Rise Time – 50 MHz and 7.0 ns (5°C to 35°C), 40 MHz and 8.6 ns (0°C to 40°C). Deflection Factor and Accuracy – 5 mV/div to 5 V/div, ±3%. 500 μV/div, ±5% with X10 vertical mag.

Vertical Operating Modes – CH 1, CH 2, CH 1 INVERT, ADD, ALT, CHOP, X10 vertical mag.

CMRR – At least 10:1 at 20 MHz.
Input R and C – 1 MΩ, 25 pF.
Channel Isolation – 100:1 at 10 MHz.

HORIZONTAL SYSTEM

Sweep Speeds – 0.5 s/div to 0.05 μs/div. X5, X10, X50 MAG to a maximum of 5 ns/div.
Accuracy – X1: 3%; X5 & X10: 4%; X50: 5% (all 15°C to 35°C).
Horizontal Operating Modes – X1 (main only), ALT (main sweep and mag sweep), MAG, X-Y.

TRIGGER SYSTEM

Trigger Sensitivity – Internal: 0.3 div at 5 MHz, 1.0 div at 50 MHz. External: 40 mV at 5 MHz, 150 mV at 50 MHz.
Trigger Operating Modes – Peak-Peak Auto (for TV LINE), NORM, TV FIELD, SGL SWP.
Trigger Source – VERT MODE, CH 1, CH 2, LINE, EXT, EXT/10.
Trigger Coupling – AC, DC, HF REJ (attenuates above 30 kHz), LF REJ (attenuates below 30 kHz).
Variable Holdoff – At least 8.1.

X-Y OPERATION

Deflection Factors – Same as vertical system.
Phase Difference – 3° from dc to 150 kHz.

CRT SYSTEM

Display – 8 cm x 10 cm. 12.6 kV nominal voltage.
Controls – INTENSITY, TRACE ROTATION, BEAM FIND, FOCUS.
2-Axis – 5 V causes noticeable modulation. Usable to 5 MHz.

POWER REQUIREMENTS

Line Voltage Range – Low: 95 VAC to 128 VAC. High: 165 VAC to 250 VAC.
Line Frequency – 48 Hz to 440 Hz.
Maximum Power Consumption – 70 W (80 VA).
Opt. 07 – Inverter Input Voltage: 11.8 VDC to 30 VDC (not retrofittable).
1104A Battery Pack – Couples to rear of scope. For use with opt. 07, Output: 12 V, 8 amps; Input: 95 VAC to 128 VAC or 185 VAC to 250 VAC (48 Hz to 440 Hz); Operating time: 3 Hrs.; Charge time: Approx. 16 Hrs. (longer when scope is operating); Weight: 14 lbs/6.5 kg.
Warranty – 3 years (Opt. 07); 1 year (1104A).

ENVIRONMENTAL CHARACTERISTICS

See page 108.

OTHER CHARACTERISTICS

Safety – UL 1244 listed, CSA certification.
Warranty – 3 years.