

Digitizing Oscilloscope

NEW
CE

Patent No: 074418



FEATURES :

- * 100MHz Bandwidth and 100MSa/s Sampling Rate.(each channel)
- * 125k words per channel long record length.
- * 15 Auto Measurement Functions to get quick and accurate results.
- * A Wide Range of Triggers, include TV Trigger, Event Delay Trigger and Time Delay Trigger...etc.
- * Auto-Setting for Quick Setup and Waveform Acquisition.
- * Four Acquisition Mode: Sample, Peak Detect, Average, Accumulate.
- * 15 sets Memory for Front Panel Setting Save & Recall.
- * 2 sets Memory for Waveform Trace Save & Recall.
- * RS-232, Parallel Printer Port and VGA Output are included as standard.
- * GPIB Interface optional.

GDS-830 (100MHz)

SPECIFICATIONS

DISPLAY SYSTEM	CRT Type Video Display Resolution Waveform Display Graticule Intensity Levels	7-inch diagonal, magnetic deflection; horizontal raster scan; green phosphor 480 (Vertically) x 640 (Horizontally) dots 8 x 10 divisions Adjustable overall intensity and contrast
VERTICAL SYSTEM	Channel 1(CH1) and Channel 2(CH2) Accuracy Bandwidth Rise time Input Coupling Input Impedance Maximum Input Polarity Waveform Processing Offset Range Bandwidth Limit	2mV/DIV to 5V/DIV $\pm(3\% \times \text{Readout} \pm 0.05\text{DIV} \times \text{volt/DIV})$ DC ~ 100MHz (-3dB) 3.5ns approx. AC; DC & ground $1\text{M}\Omega \pm 1\%$, approx. 22pF 300V CAT II ; (DC+ AC peak) Normal & invert CH1 - CH2, CH1 + CH2 2mV/DIV~50mV/DIV $\pm 0.5\text{V}$; 100mV/DIV~500mV/DIV $\pm 5\text{V}$; 1V/DIV~5V/DIV $\pm 50\text{V}$ 20MHz (-3dB)
HORIZONTAL	Range Modes Accuracy Delay Range	2ns/DIV ~ 5s/DIV (1-2-5 increments) MAIN, WINDOW, WINDOW ZOOM, ROLL, X-Y $\pm 0.01\%$ Pre-trigger : 10 DIV maximum; Post-trigger : 500 DIV
SIGNAL ACQUISITION SYSTEM	Sampling Rate Equivalent Sample Rate Vertical Resolution Record Length / Channel Single Shot Record Length Peak Detection Average	100MSa/s 25GSa/s maximum 8 bits 125k dots 125k dots 20ns ($10 \mu\text{s/DIV} \sim 5\text{s/DIV}$) 2, 4, 8, 16, ..., 256
TRIGGER	Sources Modes Coupling Sensitivity TV	CH1, CH2, LINE, EXT. AUTO-LEVEL, AUTO, NORMAL, SINGLE, TV, TIME-DELAY, EVENT-DELAY AC, DC, LF rej, HF rej, Noise rej DC~25MHz: approx. 0.35DIV or 3.5mV 25MHz~100MHz: approx. 1DIV or 10mV TV trigger sensitivity : 0.5 division of sync signal
X-Y MODE	X-Axis Input/ Y-Axis Input Bandwidth Phase shift	Channel 1 (CH1)/Channel 2 (CH2) As vertical system $\pm 3^\circ$ at 100kHz
CURSORS AND MEASUREMENT	Automated Voltage Measurement Automated Time Measurement Cursors Measurement	Vhi, Vlo, Vmax, Vmin, Vp-p, Vavg, Vrms, Vamp Rise Time, Fall Time, Duty Cycle, Freq., Period, Positive Width, Negative Width Voltage difference between cursors (ΔV)/time difference between cursors (ΔT)
CONTROL PANEL FUNCTIONS	Autoset Save/Recall Waveform Trace Save/Recall	"Autoset" adjust vertical volt/DIV, horizontal sec/DIV, and trigger level automatically Up to 15 sets of measurement conditions can be saved and recalled 2 sets of waveform can be saved and recalled
EXTERNAL TRIGGER	Range Sensitivity Input Impedance Maximum Input	$\pm 12\text{V}$ DC ~ 30MHz : ~ 50mV; 30MHz ~ 100MHz : ~ 100mV $1\text{M}\Omega \pm 2\%$, approx. 22pF 300V CAT II (DC + AC peak)
MISCELLANEOUS	Parallel port RS-232 Interface GPIB Interface Video Signal Output	A 25-pin IBM PC type, parallel printer interface, printer compatibility: EPSON dot matrix, EPSON inkjet with ESC/P2, HP DeskJet, HP LaserJet with HP PCL5 A 9-pin male DTE RS-232 interface that complies with EIA/TIA 574-90 Option ; fully programmable with IEEE488.2 compliance DB-15 rear panel video connector , VGA compatible
POWER SOURCE	Line Voltage Range Line Frequency Power Consumption	100V ~ 240V AC, automatic selection 48 Hz ~ 63 Hz 85Watts, 95VA maximum, with fan
ACCESSORIES		Power cord x 1, Instruction manual x 1, HP-9100 Probes(10:1/1:1) x 2
DIMENSIONS & WEIGHT		330(W)x155(H)x385(D) mm; Approx. 7kg

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ISO-9001 & ISO-14001