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Find the *DynamicSignals / GaGe CompuScope 225* at our website: *Click HERE*

COMPUSCOPE 225

For more details contact:

Gage Applied Sciences Inc

5610 Bois Franc, Montreal QC, Canada H4S 1A9

Toll Free : 1-800-567-GAGE, Tel : (514) 337-6893, Fax : (514) 337-8411

BBS : : (514) 337-4317, CompuServe : 73042,346, e-mail : prodinfo@gage-applied.com

COMPUSCOPE 225

The CompuScope 225 digitizes analog signals at a sampling rate of up to 50 MHz and stores the resulting digital pattern in the on-board memory. The IBM PC is then allowed to access the memory and retrieve the data for further processing.

50 MSPS SAMPLING

The CompuScope 225 uses two flash A/D converters, each running at 25 MSPS, in conjunction with Gage's proprietary memory architecture to achieve fast, reliable digitizing at rates up to 50 MSPS.

An on-board 50 MHz digital state machine generates all the timing signals needed to synchronize the data storage.

In the single channel mode, the CompuScope 225 routes the signal connected to channel A to both A/D converters and interlaces the clocks for the two A/D converters to devote the entire memory to channel A. The on-board 50 MHz crystal oscillator is used to interlace the clocks for the two A/D converters to achieve true 50 MSPS sampling.

In the dual channel mode, these A/D converters provide two channels of simultaneous sampling at up to 25 MSPS for inputs connected to channels A and B.

MEMORY DEPTH

CompuScope 225 is currently available with memory depth of 32 KB, 128 KB, 512KB, 1MB, 2MB, 4MB and 8MB. Each byte contains one sample point.

In the single channel mode, the maximum number of sample points is equal to the total memory depth of the CompuScope 225 model being used, whereas in the dual channel mode, the maximum number of sample points is half the memory depth.

For example, in the 128 KB model there are 131,072 sample points for channel A in the single channel mode, but only 65,536 points per channel in the dual channel mode.

The data stored in the CompuScope 225 memory can be transferred to the PC memory or hard disk for post processing without any interface bus (no GPIB or IEEE 488 bus required). In fact, the CompuScope 225 memory is mapped into the memory map of the IBM PC, so it can be accessed just as easily and quickly as the PC's own memory.

According to benchmarks, data throughput to the PC memory is in excess of 1 Megabytes per second on a 80486DX66 based machine.

FREE GAGESCOPE DIGITAL OSCILLOSCOPE SOFTWARE

CompuScope 225 is supplied with the powerful, full color GageScope software which allows the CompuScope 225 to be used as a digital oscilloscope.

Some of the features include real-time screen updates, real-time control of oscilloscope parameters, cursor measurements, zoom capability, optional X-Y display, optional real-time FFT, optional averaging etc. Please see the specification sheet on GageScope for more details.

DRIVERS AND OEM SUPPORT

Gage's OEM Support Program offers qualified developers and OEMs the support to make the CompuScope 225 a part of their products.

Gage supplies source code drivers for the CompuScope 225 in Borland C, Visual C and Quick BASIC. The source code routines, along with sample programs are accompanied by a detailed reference manual.

Gage also supplies a Windows 3.x DLL which supports Borland C, Visual C and Visual BASIC.

Yet other drivers are available for programmers who intend to use third party software packages such as LabVIEW, LabWindows for DOS, LabWindows CVI, DasyLab, HyperSignal etc.

MULTI-CARD SYSTEMS

One of the most unique features of the CompuScope cards is the Multi-Card system that can be configured.

A Multi-Card system, comprising one Master and up to 15 Slave boards, can be ordered if the user wants to capture more than two channels with a common clock and trigger.

A board to board cable will be supplied with the system. This cable carries all the signals needed for proper synchronisation.

EXTERNAL CLOCK

An external clock option can be ordered in situations where a special sampling frequency is desirable.

The external clock frequency must be twice the desired A/D rate if CompuScope 225 is in the dual channel mode. In the single channel mode, the external clock frequency must be the same as the desired A/D rate.

GATED DIGITIZATION

A Gated Digitization option can be ordered. Data is stored in the RAM only when the external TTL GATE input is HIGH. This can be useful when it is desirable to stack successive data captures in the on-board memory.

Rise and fall times of the GATE signal must be better than 50 ns.

MULTIPLE RECORDING

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Multiple Recording allows CS225 to capture data on successive triggers and stack it in the on-board memory. This option must be purchased from the factory.

GageScope software can display the stacked data as individual acquisitions. Software drivers also provide support for accessing the stacked data.

COMPUSCOPE 225 SPECIFICATIONS

SYSTEM REQUIREMENT

IBM PC, PC/XT, PC AT, 386, 486, Pentium or ISA compatible PC with 640 kilobytes of RAM, VGA, EGA, CGA or Hercules graphics card and monitor and 1MB hard disk space. 80x87 coprocessor recommended.

SIZE

Single slot full length 8 bit ISA PC board.

POWER

12 Watts at + 5 Volt
1 Watt at + 12 Volt
1 Watt at - 12 Volt
1 Watt at - 5 Volt

CHANNELS A & B

Inputs per card : 2

Impedance : 1 MOhm 20pF

Coupling : AC or DC

Bandwidth : 25 MHz

Resolution : 8 bits

Voltage Range : ±100mV, ±200mV,
±500mV, ±1V, ±5V

Amplitude : Absolute Max ± 15 Volts

Accuracy : ± 2%

Sampling Rate

Channel A: 50 MSPS max 25MSPS, 10MSPS, 5MSPS...

Channel B: 25 MSPS max 10MSPS, 5MSPS, 2MSPS...

Aperture jitter : 10 ps, rms

Memory Depth Programmable with 64 sample resolution

Channel A: up to full on-board memory

Channel B: up to half on-board memory

SNR : 45 dB @ 25 MSPS
1 MHz input in +/- 1V range

Protection : Diode Clamped

Connector : BNC

MEMORY DEPTHS AVAILABLE

Memory Depth : 32KB, 128KB, 512KB,
1MB, 2 MB, 4 MB, 8 MB

TRIGGERING

Source : CH A, CH B, Ext or Kbd

Type : Analog triggering

Mode : Pre, Mid, or Post-trigger

Levels : 256

Slope : Positive or Negative

EXTERNAL TRIGGER

Impedance: 1 MOhm, 20 pF

Amplitude : Absolute Max ± 15 Volts

Voltage Range : ±1 V and ±5 V

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Coupling : AC or DC

Bandwidth : 25 MHz

Connector : BNC

TEST OUTPUT

Amplitude : TTL Levels

Frequency : 1 kHz typical

Connector : BNC

DISPLAY (GAGESCOPE SOFTWARE)

Traces : Up to 32. Either from hardware, disk or math

Timebase : 10 Ms/div to 20 ns/div

Vertical Scale : 1KV/div to 1 mV / div

Scrolling : All channels

Trigger Marker : Displayed on screen

Cursors : Absolute, dV and dT

Channel ID : Each channel identified
at both ends of the trace

Zero Reference : For each channel

Zoom : 1-2-5 sequence

OUTPUT (GAGESCOPE SOFTWARE)

Hard Copy : HP LaserJet, HP InkJet or Epson dot matrix

File Format : GageScope binary
format, 2 column ASCII

MATHEMATICAL ANALYSIS

Functions : Addition, Subtraction, Multiplication or Division of up to any three channels. All channels must have the same sample rate

Optional FFT : Up to 4096 point dual channel FFT with Rectangular, Parzen, Welch, Hanning, Hamming, Exact Blackman windows.
Selectable center frequency, span and vertical scale.
Cursor measurements on the FFT curve

Optional X-Y : Upto 4096 point continuous or unlimited single shot display of any two channels from the same CompuScope cards or any disk channels

Optional

Averaging: Up to 4096 point continuous or unlimited single shot display of any two channels from the same CompuScope card or any disk channels.

SOFTWARE DRIVERS

Available in source code in Borland C, Visual C and Quick BASIC. Available for the LabWindows and LabVIEW environments. Available as a DLL for the Windows 3.x environment for Visual BASIC and Visual C++

MATERIALS SUPPLIED One CompuScope 225 card

One GageScope software package, including a Reference Manual

Two X10 / X1 oscilloscope probes

WARRANTY

One year parts and labor

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

ORDERING INFORMATION

Product Order Number

CompuScope 225 - 32K 225-101-001

CompuScope 225 - 128K 225-101-002

CompuScope 225 - 512K 225-101-003

CompuScope 225 - 1M 225-101-004

CompuScope 225 - 2M 225-101-005

CompuScope 225 - 4M 225-101-006

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CompuScope 225 - 8M 225-101-007

GageScope Single-Card Included

GageScope Multi-Card 200-001-002

GageScope : FFT Module 200-001-003

GageScope: X-Y Module 200-001-004

GageScope: Averaging 200-001-005

GageScope: Maintenance Program 200-111-123
32K to 128K Upgrade 225-181-001
32K to 512K Upgrade 225-181-002
32K to 1M Upgrade 225-181-003

32K to 2M Upgrade 225-181-004

32K to 4M Upgrade 225-181-005
32K to 8M Upgrade 225-181-006

128K to 512K Upgrade 225-181-007

128K to 1M Upgrade 225-181-008

128K to 2M Upgrade 225-181-009

128K to 4M Upgrade 225-181-010

128K to 8M Upgrade 225-181-011

512K to 1M Upgrade 225-181-012

512K to 2M Upgrade 225-181-013

512K to 4M Upgrade 225-181-014

512K to 8M Upgrade 225-181-015

1M to 2M Upgrade 225-181-016
1M to 4M Upgrade 225-181-020
1M to 8M Upgrade 225-181-022
2M to 4M Upgrade 225-181-024
2M to 8M Upgrade 225-181-026
4M to 8M Upgrade 225-181-027

Gated Digitization Upgrade 225-181-017

External Clock Upgrade 225-181-018

Master Multi-Card Upgrade 225-181-019

Slave Multi-Card Upgrade 225-181-023

CS225 Calibration 225-181-021

Multiple Record Option 225-181-025

CompuScope C Drivers 200-113-001

CompuScope Quick BASIC Drivers 200-113-002

CS225 LabWindows Drivers 200-113-004

CompuScope Windows DLL 200-113-005

CompuScope LabVIEW Driver 200-113-006

CompuScope LabWindows CVI Drivers 200-113-007

CompuScope Windows NT DLL Driver 200-113-008
X10 / X1 Probe, Extra 220-100-001

X100 Probe 220-100-002

All Upgrades performed at the factory

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