Multiple Instrument Station Module

Digital Storage Oscilloscope

Vertical

2 + external trigger Channels 50MS/s (5GS/s ERS mode) Sampling rate

> 100MHz Bandwidth AC, DC, GND Coupling Input impedance 1M Ohm, 25pF Vertical sensitivity 20mV to 2V per division

Vertical resolution Max. input voltage 100VDC

Horizontal

Sweep speed 5ns/div to 5s/div 64kbytes/channel Memory Modes normal, auto, single

Internal trigger

channel 1, channel 2, function generator Source

Slope positive, negative Sensitivity < 0.5 divisions

Coupling AC, DC, HF reject, LF reject

External trigger

Input impedance 1M Ohm, 25pF positive, negative Slope < 10mV

Sensitivity

AC, DC, HF reject, LF reject Coupling

100V DC Max. input voltage

Trigger delay

Pre-trigger 0 to 100% of sweep time Post-trigger 0 to 100% of sweep time

Measurements

Automatic standard waveform parameters

Comparison time and voltage

Function Generator

Waveforms sine, square, triangle, single-shot pulse Frequency range 0.1Hz to 10MHz, resolution 0.1% of range full

scale

100ns to 10s Pulse width AM, FM, PWM Modulation modes 400Hz internal Modulation frequency

20% to 80%, resolution 1% Duty cycle **Amplitude** 0V to 5V, resolution 50mV DC offset -7.5V to 7.5V, resolution 50mV

Rise/fall time 25ns Output impedance 50 Ohm

Sweep mode

Start frequency 0.1Hz to 10MHz End frequency 0.1Hz to 10MHz 1 to 1000 Steps 0.1s to 9.9s Time per step

Digital Floating Multimeter

Channels 2 channels Input impedance 10M Ohm

minimum, maximum, average **Statistics**

Channel 1

Modes DC volts, AC volts Voltage range 0 to 400V 0.005% full scale DC voltage resolution DC voltage accuracy +/-0.05% AC voltage resolution 0.05% full scale AC voltage accuracy +/-0.1%

Channel 2

Modes DC volts, AC volts, DC current, AC current,

resistance

0 to 400V Voltage range Current range 0 to 2A Resistance range 0 to 20M Ohm DC voltage resolution 0.005% full scale DC voltage accuracy +/-0.05% AC voltage resolution 0.05% full scale AC voltage accuracy +/-0.1% DC current resolution 1mA +/-0.1% DC current accuracy

AC current resolution 1mA +/-0.2% AC current accuracy 0.01% full scale Resistance resolution

Resistance accuracy +/-0.1%

Auxiliary Power Supply

Output Voltages +5V. +9V. -9V **Output Current** +5V supply - 500mA

+9V supply - 100mA -9V supply - 100mA



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Multiple Instrument Station (continued)

Frequency Counter

Modes event, frequency, pulse width

Channel 1

Impedance 50 Ohm

Frequency range 1MHz to 150MHz

Sensitivity < 5mV rms @ 2MHz to 10MHz

<15mV rms @ 10MHz to 100MHz

Pulse response 50mV, 25ns pulse @ 500Hz

Maximum input +/- 5V

Basic accuracy +/- 0.02% +/- 1 count

Channel 2

Impedance 1 MOhm
Frequency range 2Hz to 100MHz
Sensitivity < 300mV rms @ 10Hz

< 150mV rms @ 10kHz to 10MHz

< 350mV rms @ 33MHz

Maximum input 200V rms

Basic accuracy +/- 0.02% +/- 1 count

Event Mode

Ch1 event count 0 to 9,999,999,999 Ext gate width minimum 20ns

Ext gate width time 6 hours, 10ms resolution

10.74s, 5µs resolution 84ms, 40ns resolution lowest, highest, average

Statistics lowest, highest, average bisplay frequency, period, RPM events,

pulse width, gate time

Universal I/O

Number of channels 4 channels

Analogue Channels

Modes voltage output, voltage input, current output,

current input

Voltage output range -9V to +9Vm resolution 10mV
Voltage input range -10V to +10V, resolution 10mV
Current output range 0 to +/-20mA, resolution μA

Digital Channels

Modes logic output high, logic output low

logic measurement

Voltage TTL compatible logic levels

Accessories
Output voltages

2 x DSO probes

1 x yellow probe and cable 1x blue probe and cable 1x black probe and cable

1x universal I/O cable (not terminated)

Options

Internal fitting PCI Interface

External fitting - MultiLink case (cost option) with USB

- External case (cost option) which will hold up

to 5 System8 modules (USB interface).

PC Requirements Pentium (1GHz) System

Windows XP™

20MB of free hard disk space

256 MB RAM CD ROM Drive

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