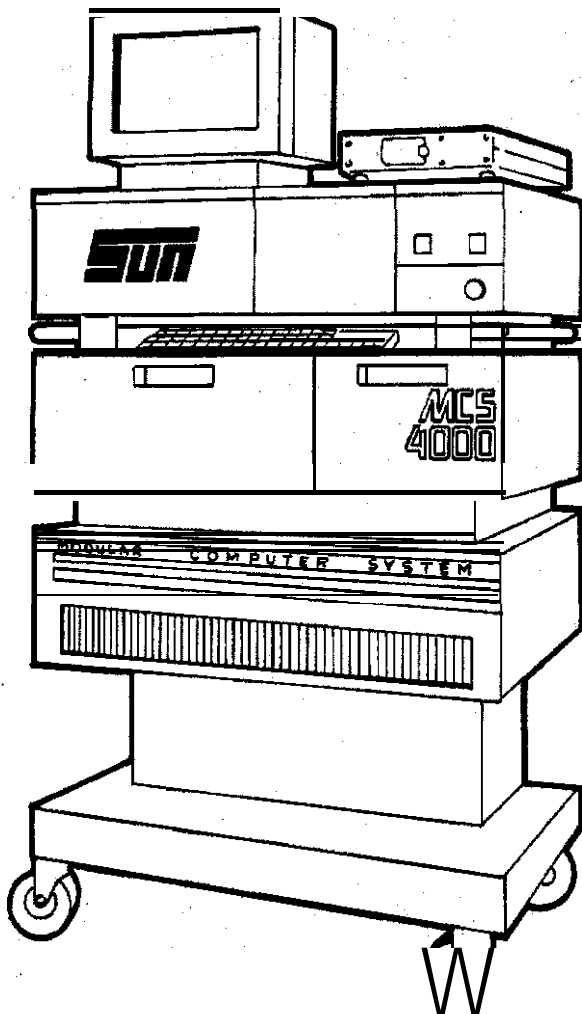


MCS 4000 Bid Specification



BASE UNIT

HARDWARE

- CPU: 80386SX running at 16 mhz
- Memory 8.megabytes of RAM
- Floppy Drive Single 1,44 megabyte
- Hard Drive 130 megabyte IDE minimum
- Monitor: 14 VGA, 1024 x 766 resolution
- Serial Port Two (2) RS-232 compatible
- Parallel Port One (1) Centronix compatible
- Keyboard 101-key

ENVIRONMENTAUMECHANICAL

- Shipping Weight 660 pounds
- Dimensions 51 "H x 28"W x 16"D
- Operating Temperature +41 to +1050F
- Storage Temperature -20 to +130~F
- Humidity: 0 to 85% non-condensing



SUN ELECTRIC
CORPORATION

ELECTRICAL SPECIFICATIONS

- Power: 120 V AC, 60 Hz, 6 Amps

VEHICLE INTERFACE POD - VIP-1

HARDWARE

- VI P-1 module
- connecting cable
- software

FUNCTIONS

- Tests 2 and 4 stroke or rotary engines with conventional, transistorized or electronic advance ignition system on 2, 3, 4, 5, 6, 8, 10 and 12 cylinder gas engines.
- Digital lab-style scope
 - displays primary signals
 - displays secondary signals including distributorless ignition
 - displays sensor signals
- time and voltage automatically selected for each different type of sensor
 - displays dual traces
 - scope waveforms can be stored to RAM
 - displays dwell
 - displays points voltage
 - displays live secondary KV including distributorless ignition
 - displays battery voltage
 - displays alternator ripple
- RPM measurement including distributorless ignition
- Rapid Power Check™ feature for power balance on distributorless ignition systems
- isolated multi meter with DC volts and ohms

ENVIRONMENTAUMECHANICAL

- Weight 6 pounds
- Dimensions: 2H x 8 1/2W x 11"D
- Operating Temperature +41 to +1050F.
- Storage Temperature -20~+13CPF
- Humidity 0 to S5% non-condensing

ACCURACIES

Measurement	Range	Display Resolution	Accuracy
RPM	50-9999 RPM	1 RPM	+/- 1% of reading
Dwell	0-360 degrees	.1 degree	+/- 3% of reading
Peak KV	0-50 KV	.1 KV	+/- 1 KV
Spark KV	0-50 KV	.1 KV	+/- 1 KV
Duration	.14-5 ms	.01 ms	+/- .05 ms
Coil Osc	0-10 Osc	1 osc	+/- 1 Osc
Sol Dwell	0-60 deg	.1 deg	+/- 0.5 deg
	0-90 deg	.1 deg	+/- 0.5 deg
Dist Res	+/- 30 v	.01 v	+/- 20 mv
	+/- 10-30 v	.1 v	+/- 20 mv
Coil +	+/- 30 v	.01 v	+/- 20 mv
	+/- 10-30 v	.1 v	+/- 20 mv
Sattery	+/- 0-9.99 v	.01 v	+/- 3% of reading
	+/- 10-30 v	.01 v	+/- 3% of reading
AH ripple	0-2 v	.01 v	+/- 3% of reading
Pinpoint volts	+/- 0-9.99 v	.01 v	+/- 3% of reading
	+/- 10-30 v	.01 v	+/- 3% of reading
Ohms	0-999 ohms	.1 ohm	+/- 3% of reading
	1 K-9.99K ohms	.01 K ohm	+/- 30/0 of reading
	10K-99.9K ohms	.1 K ohm	+/- 30/0 of reading
	100K-500k ohms	1 K ohm	+/- 30/0 of reading

MCS 4000 Bid Specification

VEHICLE INTERFACE POD - VIP-2

HARDWARE

- . VI P-2 module
- . connecting cable
- . software
- . inductive pickup and cable
- . oil temperature probe and cable
- . vacuum line
- timing light
- . magnetic timing probe

FUNCTIONS

- . measures and displays amperes via an inductive pickup
- . measures and displays oil temperature
- . measures and displays engine manifold vacuum
- . measures and displays engine timing via a timing light or magnetic probe on vehicle so equipped to accept probe
- . performs diagnostic tests
 - high cruise test
 - low cruise test
 - idle test
 - base timing measurement
 - cranking test

ENVIRONMENTAL MECHANICAL

- . Weight: 4 pounds
- Dimensions: 1-1/2" H x 8 1/2" W x 10 D
- . Operating Temperature +41 to +105°F
- . Storage Temperature -20 to +130°F
- . Humidity 0-85% non-condensing

ACCURACIES

Measurement	Range	Display Resolution	Accuracy
Vacuum	0-30 Hg	0.1" Hg	+/-3% of reading
Inductive amps	0-500 amps	1 amp	+/-3% of reading
	500-1000 amps	1 amp	+3%/-7% of reading
Oil temp	0-150 deg C	1 deg	+/- 5% of reading
	0-300 deg F	1 deg	+/-5% of reading
Timing (Avg)	-20/+90 deg	0.1 deg	+/- 0.5 degrees
Relative compression	0-100%	1%	+/- 2% of reading

FOUR-GAS MODULE

HARDWARE

- . four-gas bench
- . software
- . sampling probe and hose
- . filters
- . extra filter kit
- . conforms to BAR 90 accuracy standards

ACCURACIES

Measurement	Range	Display Resolution	Accuracy
HC	0-2000 ppm	1 ppm	+/- 12 ppm or +/- 5% of reading
CO	0-1 %	.01%	+/- .06% or +/- 4% of reading
CO ₂	0-20%	1%	+/- .4% or +/- 3% of reading
O ₂	0-21%	1%	+/- 4% of reading

ALLDATA/CD-ROM DRIVE

FEATURES

- . plays optional ALLDATA service information system on compact disk
- . Includes diagnostic and repair procedures, technical service bulletins, wiring diagrams, maintenance schedules, part numbers, labor rates, trouble code diagnostic charts; etc.

24-PIN PRINTER

FEATURES

- dot matrix printer with near-letter-quality mode
- . prints text and graphics
- supports parallel cable interface
- . supports tractor-fed paper 8-1/2" x 11". 80-column wide

MODEM OPTION

FEATURES

- . 14.4 K baud industry-standard compatible modem
- . internal design fits in MCS 4000
- . dialing software included
- . includes phone interface female jack at rear of unit

SUN TEST LINK

FEATURES

- . Sun Bus board included
- . troubleshooting flowcharts on floppy disk
- . runs off floppy disk or can be stored on hard drive
- . interfaces with vehicle's on-board computer
- . handles up to 62,500 baud rate
- . includes Complete Test Link Software Library

SIMU-TECH +™ SYSTEM OPTION

FEATURES

- . Fully automatic sweep tests of the computerized engine control system (SIMU-TECH™) and/or ABS System (ASS-TECH™), testing the system sensors, actuators, ground lines and reference voltages against pre-defined min/max voltages.
- . Pass/fail test results displayed for each component function tested.
- . Comprehensive diagnostic messages displayed for each device or function flagged as out-of-spec.
- . Seven-trace oscilloscope
- . Pre-configured and custom meters
- . Digital multimeter
- . Customer and technician diagnostic reports
- Direct, single-point connection using vehicle-specific T-cables

ADDITIONAL FEATURES

FEATURES

- . Mouse -- point-and-click monitor screen selections
- . Swiveling test lead boom/NIP mount
- . Remote control -- for analyzer operation from behind the wheel or under the hood
- . 12V DC receptacle for scan tool

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