ZEUS+™ EEMS348
BID SPECIFICATION

Snap-on® ZEUS+™
Diagnostic and Information System

PRODUCT FEATURES

- Upgradeable ShopStream® integrated diagnostic software suite, compromising: scanner, scope, component test, data manager, TSBs, SureTrack® information, vehicle history and optional repair information system
- 4-channel lab/ignition scope
- Graphing scan tool with wireless scan module
- Web access to SureTrack expert information system
- Web access to Technical Service Bulletin database
- Web access to Oil Specs and Resets
- Oil Specs and Reset data
- Domestic and Asian Fast-Track® Troubleshooter
- Fast-track Reference Database
- Digital Graphing Multimeter
- Customer/Vehicle information database application
- Data manager application
- Wi-Fi capable and open Internet browser
- Factory-installed Antivirus Security Essentials

DISPLAY TABLET

- 11.6” Color LCD, 1920x1080 capacitive touchscreen
- 1.2 GHz base freq, 3.0 GHz burst freq, 64 bit, Quad-Core Intel® Pentium processor
- 128 GB internal Solid-State Drive
- Internal battery with approx. 9 hour run time
- Power-saving Ready Mode with 5 second startup
- Internal audio microphone and stereo speakers
- USB-C port for power, display, and audio
- Two USB 3.0 ports for peripheral device connection
- 802.11b/g/n wireless and Bluetooth® dual band 5.0 and legacy 2.1 communication

SYSTEM & USER INTERFACE

- Windows®-Embedded Standard 10 operating system
- Open system allows user-installed software
- Application multitasking capability
- User-specified display options
- Touchscreen navigation
- On-screen virtual keyboard

SCAN TOOL SOFTWARE SPECIFICATIONS

- Instant ID (Auto ID using Mode 9 VIN)
- Oil Specs and Reset data
- One-Touch full-vehicle code scan & clear for covered makes and systems
- SureTrack includes Real Fixes and verified parts replacement records harvested from millions of actual completed repair orders. Expert information that can help anyone, regardless of experience level and is included every time you upgrade to the current version of software.
- Reads & clears OBD-II and OEM-specific trouble codes
- Displays complete trouble code descriptions
- Displays from one to sixteen live data parameters (PIDs) simultaneously in enhanced graphing mode
- Adjustable sweep; Min/Max capture in graphing mode
- Includes functional tests, bi-directional controls and reset/relearns
- Save codes, data movies and screen images

VEHICLE COVERAGE

Refer to the latest Vehicle Coverage Guide

POWER/WEIGHT/DIMENSIONS

Display Tablet

- Power: 10.8V Lithium-ion battery pack
- Dimensions: 12.4""W x 7.8""H x 1.7""D
- Weight: 4.1 lbs – with battery"

Scope Module

- Power: 5VDC supplied through Display Tablet connection
- Dimensions: 4.3""W x 4.9""H x 1.3""D
- Weight: 0.5 lbs"

Scan Module

- Power : 12-24VDC supplied through vehicle data link connector
- Dimensions: 4.0""L x 0.92""H x 1.85""W
- Weight: 0.22 lbs"

LAB SCOPE SPECIFICATIONS

Captures and displays live signals up to four waveforms on screen in real time

- 4 Channels
- 6 MSPS Sample Rate
- 3 MHS Bandwidth
- Displays digital readout along with each waveform to determine voltage at the selected point on the waveform
- Color-coded waveform for each channel
- Manual & automatic display configuration for each channel
- Snapshot: Capture data over time saved into a buffer
- Easy Scroll: Streamlines selection of menu and toolbar
- AC Coupling: Provides the ability to enlarge the alternating current (AC) component of a signal for closer examination
- Invert: Flip waveform to adjust for flexible hookups and easier viewing
- Autofind: Automatically pre-configure the vertical scale
- Load Configuration: Select factory preset screens or define a custom setup and retrieve them as needed – diagnostic tasks most frequently performed on specific components can be selected to view the performance of sensors, actuators and circuits on a vehicle a custom setup and retrieve them as needed – diagnostic tasks most frequently performed on specific components can be selected to view the performance of sensors, actuators and circuits on a vehicle
- Peak Detect: User selectable for capturing hi-speed signals

ZEUS+™ EEMS348
BID SPECIFICATION

DIGITAL & GRAPHING MULTIMETER SPECIFICATIONS

- Auto scaling, high-impedance multimeter
- Digital and graphing display of results
- Pinpoint measurement of:
  - DC volts, AC Volts RMS, Ohms, Frequency, Pulse-width, Injection pulse-width, Duty cycle
  - Interface for optional amp probe and pressure/vacuum transducers
  - Continuity tester with audible beep

OPTIONAL ACCESSORIES

- Device Stand w/USB-C HUB – EAK0380L15A
- Precision Low Amps Probe – EETA308D
- Drawer Organizers for KRSC3 Series Carts – ZEUSPFOAM3
- Drawer Organizers for KRSC4 Series Carts – ZEUSPFOAM4
- USB-C Hub Adapter – 2-06939A
- Kit, EESM306B Compact Scan Module, S9 – EAK0355L10B
- Replacement Screen Protector, Tempered Glass – EAC0147L04A1
- USB-C Cable – 6-23622A
- Portable 5-Gas Analyzer - EEEA305APC
- Extended Warranty
- ShopKey Pro Repair Information System

OPTIONAL ACCESSORIES – SCAN TOOL

- Domestic/Asian OBD-I Adapter Kit – EAK0351L01B
- European Vehicle Adapter Kit – EAK0351L02B
- Adapter for Kia ABS & Airbag – EAA0355L92A
- Scanner Simulation/Demo Prop - EESX306SC
- Harley-Davidson Adapter Kit - EAK0347L01A

OPTIONAL ACCESSORIES – IGNITION ADAPTERS

- Ignition Scope Lead Set - EAK0294B09A
- EETA309A15 - Multiple Ignition Lead Module Ignition adapters
- EETM306A03 COP-1 Ford
- EETM306A04 COP-2 Chrysler
- EETM306A05 CIC-2 Honda, Toyota
- EETM306A06 CIC-1 GM
- EETM306A07 COP-3 Audi, VW
- EETM306A08 COP-4 Acura/Honda, Isuzu
- EETM306A09 COP-5 Volvo/BMW
- EETM306A10 COP-6 Mercedes
- EETM306A11 COP-7 Mercedes Dual
- EETM306A12 COP-8 BMW
- EETM306A13 COP-9 Lexus
- EETM306A14 COP-11 Audi, BMW, Chrysler, Jeep, Lexus, Mercedes, Saab, Toyota, Volvo, VW

OPTIONAL ACCESSORIES – LAB SCOPE/METER

- Extended Scope Leads – EETA108B
- Precision Low Amp Current Probe – EETA308D
- Pressure Transducer 100 PSI – EEPV302AL
- Pressure Transducer 500 PSI – EEPV302AT
- Pressure Transducer 5000 PSI – EEPV302AH
- Pressure Transducer Cable – EAX0024B10A
- Pressure Transducer Extension Cable (6ft) – EAX0024B30A
- Ignition Scope Lead Kit – EAK0294B09A
- Secondary Coil Adapter Lead – EETA309A05A
- Secondary Ignition Clip-on Wire Adapter – EETM306A02
- Coil-in-Cap (CIC-2) Ignition Pickup – EETM306A05
- RCA Adapter – 2-12203A
- Split Lead Adapter – 6-03622A01
- Scope Simulation/Demo Prop – EESX306SP

ZEUS+™ EEMS348
BID SPECIFICATION

SCOPE/METER SYSTEM SPECIFICATIONS

MULTIMETER

Function	Range	Comments
Channels	1 – 2	Common Ground
Sample Rate	6.0 MSPS	Simultaneous
	1.5 MSPS	Continuous per channel
Bandwidth	DC – 3 MHz	3 db point @ 3 MHz
Input Impedance	10 MΩ @ DC	All channels
	5.8 kΩ @ 3MHz	
V dc (Full Scale)	75 V maximum	
V ac (Full Scale) Peak to Peak Voltage	50 V maximum	

DIGITAL METER OHMS AND DIODE CONTINUITY TESTS

Function	Range	Comments
Channels	3-4	Inputs between channels 3 (-) and 4 (+)
Input Impedance	10 MΩ	
Glitch capture	Approximately 50 mS	
Ohms	400 Ω – 4 MΩ	Fixed scales or Auto Ranging
Diode Test	2 V Scale	

GRAPHING MULTIMETER

Function	Range	Comments
Input Channels	1 – 2	
Input Impedance	10 Megohm	
Volts (DC)	400 mV thru 400V*	Auto Ranging
Frequency	5 Hz thru 50 KHz	Auto Threshold Setting
Pulse Width	5 ms thru 2 s	Auto Threshold Setting
Inj Pulse Width	5 ms thru 2 s	
MC Dwell (60)	20 - 40 - 60 degrees	Auto Threshold Setting
MC Dwell (90)	30 - 60 - 90 degrees	Auto Threshold Setting
Duty Cycle	20 - 40 - 60 - 80 - 100%	Auto Threshold Setting
Low Amps (20)	1 - 2 - 5 - 10 - 20A	With EETA308D
Low Amps (40)	10 – 20 - 40A	With EETA308D
Low Amps (60)	10 - 20 - 40 - 60A	With EETA308D
Vacuum	5 - 10 - 20 in Hg	Sensor specific
100 psi Pressure	10 - 25 - 50 - 100 PSI	Sensor specific
500 psi Pressure	50 - 100 - 250 - 500 PSI	Sensor specific
5000 psi Pressure	500 - 1000 - 2500 - 5000 PSI	Sensor specific

* See Safety Warnings in ZEUS+ user manual

ZEUS+™ EEMS348
BID SPECIFICATION

LAB SCOPE

Function	Range	Comments
Channels	1 - 4	Common Ground
Bandwidth	DC - 3 MHz	3 db point @ 3 MHz
Input Impedance	10 MΩ @ DC 4 kΩ @ 3MHz	All channels
VDC (full scale) Do not test greater than 75Vdc VAC (full scale) Peak to Peak Voltage Do not test greater than 50Vac (rms)	400 Volts 200 Volts 100 Volts 50 Volts 20 Volts 10 Volts 5 Volt 2 Volt 1 Volt 500 millivolt 200 millivolt 100 millivolt	
Secondary Ignition	1 – 50 KV	Channels 1 and 2

LAB SCOPE SPECIFICATIONS BY SWEEP RATE

Sweep	Channels	Data points per screen	Buffer storage/Ch	Max # Screens	Total time [1]	Sample rate [2]	Peak Detect [3]
50 µs	Ch 1 only	300	2,097,152	6990	349.5 ms	6.0 MHz	N
100 µs	Ch 1,2 only	300	1,048,576	3495	349.5 ms	3.0 MHz	N
200 µs	Ch 1,2,3,4	300	524,288	1747	349.5 ms	1.5 MHz	N
500 µs	Ch 1,2,3,4	500	524,288	1048	524 ms	1.0 MHz	N
1 ms	Ch 1,2,3,4	500	524,288	1048	1.05 S	500 KHz	Y
2 ms	Ch 1,2,3,4	500	524,288	1048	2.1 S	250 KHZ	Y
5 ms	Ch 1,2,3,4	500	524,288	1048	5.2 S	100 KHz	Y
10 ms	Ch 1,2,3,4	500	524,288	1048	10.5 S	50 KHz	Y
20 ms	Ch 1,2,3,4	500	524,288	1048	21.0 S	25 KHz	Y
50 ms	Ch 1,2,3,4	500	524,288	1048	52.4 S	10 KHz	Y
100 ms	Ch 1,2,3,4	500	524,288	1048	1.75 M	5 KHz	Y
200 ms	Ch 1,2,3,4	500	524,288	1048	3.5 M	2.5 KHz	Y
500 ms	Ch 1,2,3,4	500	524,288	1048	8.7 M	1.0 KHz	Y
1 s	Ch 1,2,3,4	500	524,288	1048	17.5 M	500 Hz	Y
2 s	Ch 1,2,3,4	500	524,288	1048	34.9 M	250 Hz	Y
5 s	Ch 1,2,3,4	500	524,288	1048	87.3 M	100 Hz	Y
10 s	Ch 1,2,3,4	500	524,288	1048	174.7 M	50 Hz	Y
20 s	Ch 1,2,3,4	500	524,288	1048	349.3 M	25 Hz	Y

* See Safety Warnings in ZEUS+ user manual

1 - Total time is equal to the sweep times the number of frames

2 - Actual sample rate for sweeps 50-200 µs. Effective sample rate for sweeps 500 µs and longer. The effective sample rate is based on the number of sample points stored to the data buffer memory over the selected time sweep. On all sweeps 500 µs and longer, the ADC samples at 1.5 MHz per channel regardless of sweep. The number of sample points is greater than the number of points needed to complete a screen. Only enough points to complete a screen are selected to be stored to the data buffer. This results in the effective sample rate being lower than the actual sample rate of 1.5MHz.

3 - When Peak Detect is on, all samples are evaluated. The points stored to the buffer are intelligently selected to capture fast events that might be missed at slower effective sample rates. Peak Detect will capture fast changes at an effective sample rate of 1.5MHz.

4-13-23