



1

Your Instructor For This Webinar

- National Trainer, ASE World Class, Master Auto, Truck, School Bus, L1, L3, CNG
- ATTP Master Instructor, New York State, CT and New Jersey
- STS (Service Technician Society) 2003 President
- TST (Technicians Service Training) Founder and President
- Author / Co Author/ Technical adviser on 25 plus books including
- OBD II and Mode 6, and Understanding and Diagnosing Hybrid Vehicles
- Published articles for multiple newsletters, and magazines
- Picked as one of the Top Instructors in the country by EPA & SAE
- Numerous Radio, TV, Internet, and SAE Video appearances
- PTEN, Motor Age and TST Webcast Instructor - Dorman Training Director
- Motor Magazine Top 20 award winner
- Provider of OBD II Training for 14 states, Ontario Canada and the US EPA
- Guest speaker at SAE Congress, IM Solutions and Clean Air Conference



"G" Jerry Truglia

gtruglia@dormanproducts.com



2

2

What Will Be Covered

Instructions For This Webinar

This webinar will be approx. 1 + hours long

- All slides that are presented are in your handout and are numbered
- Have a pen or pencil and paper for notes
- Questions can be asked at anytime

01 What is and Who is Zenth

02 Specifications

03 Generic OBD II

04 Enhanced Hyundai

05 Hybrid / EV Battery Cells

Zenith Scan Tool



Zenith Scan Tool



PRODUCT

SUPPORT

COMPANY

BOARD

JOIN

LOGIN

English

ABOUT US

ABOUT US

HISTORY

ORGANIZATION

CORE CAPABILITY

VISION & VALUE



EZDS is a specialized automotive diagnostics company that provides total diagnostic solutions in aftermarket. Although the company was founded in 2009, key executives and engineers including the CEO are experts with over 30 years of experience in developing and distributing automobile diagnostic devices. Until 2020, the company's main business was the development and update of diagnostic software for G-scan and its worldwide distribution. In addition, we started the EOL (End of Line) business used in automobile production lines in 2015, providing integrated diagnostic device solutions to Myanmar and Laos, and supporting Ssangyong EOL and LS Mtron diagnostic device businesses. EZDS has developed expertise in this field for a long time through continuous R&D in the rapidly changing automotive diagnostics environment. In 2021, we aim to lead new changes and innovations through our proprietary Zenith Z5 and leap forward as a next-generation leader in the Korean and global diagnostic equipment market.



5

Zenith Scan Tool

Specification

Category	Specifications
CPU	Octa Core Processor 2.2 GHz
Operating System	Android 11
System Memory	4G / Internal 64G **
External Memory	Micro SD Card Slot Supported (up to 256GB)
LCD	10.1 inch FHD (1920 x 1200)
Input Devices	Capacitive Touch Screen, 3 Hard Keys (Power, Volume +, Volume -)
Camera	8 megapixel auto-focus with LED flash
Sound	Loud Speaker 1 microphone
Rechargeable Battery	Li-ion 3.85V, 5800mAh
Operating Voltage	Main Unit(DCSV)
Sensors	Ambient Light, Gyroscope, Accelerometer
Dimension	About 275 x 187 x 36mm(Terminal) About 170 x 124 x 32mm(VCI)
External Port	1 x USB Type C (Special Locking Type Port)
Network	RJ45 Ethernet, Wi-Fi 802.11 a/b/g/n, Bluetooth 5.0, NFC

Supported Communication Protocols

CAN-FD, DoIP By-Pass, CAN (High speed, Low speed, Single)
ISO-13400, ISO-11898, ISO-9141, ISO-9141-CARB, KWP-2000
SAE-J1708, SAE-J1587
J1850(PWM/VPW)
Melco Pull-Down



6

Zenith Scan Tool



Quick access to mostly used service functions without navigating menu system



Ultra fast Topology scan for all-system-scan



Latest ADAS calibration software included in one package



Bi-directional communications with 24 V commercial trucks and buses



Remote diagnostic function support available via J2534 technology



'Pass-Thru' device for programming the ECUs for multiple carline



Ready for most protocols on the market including CAN FD and DoIP.



Wireless diagnostic interface via latest Bluetooth technology



Fast and easy diagnostic report on pre and post scan results

DORMAN
TRAINING CENTER
7

7

Zenith Scan Tool

Ultra Fast System Search



Zenith offers ultra fast and auto system scan function that detects the VIN, model year, model name, engine type, and other necessary information that are retrieved.

Topology Scan



Zenith also offers ultra fast Topology scan function that scans all the vehicle systems, reports fault codes, and provides access to advanced diagnostic functions in each detected system.

Service Function



Time is money! Zenith offers shortcuts to the most frequently used functions in the workshops to save time for technicians to navigate through the original menu system.

CAN FD & DoIP



Zenith Z7 VCI supports the latest protocol including CAN FD & DoIP.

FCA SGW Ready



Zenith offers Security Gateway access on the latest Fiat, Chrysler models via AutoAuth.

24V Trucks



Zenith supports bi-directional communications for Asian light duty to medium duty trucks with 24v system.

DORMAN
TRAINING CENTER
8

8

Zenith Scan Tool

Full Text Description



No more acronyms and cutting of significant texts. Zenith offers the long-text DTC description in full screen, so you get all the information you need. Zenith also allows users to view bigger texts by zooming in and out of DTC description with two fingers.

Search DTC



No need to go back and forth to search the DTC on the web. Simply hit the magnifying button next to the description!

Live Data



We understand that sensor data is important for professionals. Zenith offers intuitively designed and extremely fast Data Analysis where user can view/compare multiple live data with freedom of choice. Not only displaying multiple data in one screen, but Zenith also allows users to search and select desired items.

Actuation Test



Zenith offers not just simple actuation test function. Via go next step to combine live data and graphing in actuation test, so that user can check the performance of the testing component level.

J2534 Pass-thru



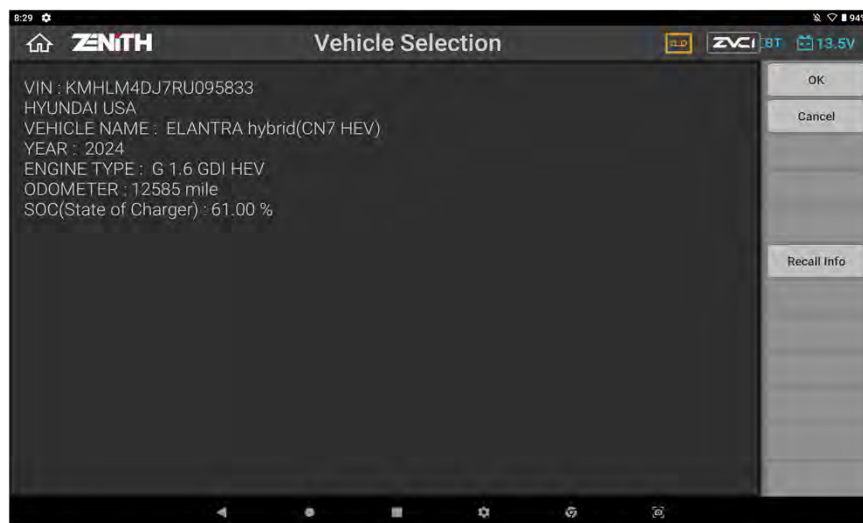
Zenith acts as a J2534-Pass-thru device for multiple car models with CAN-bus, KWP2000, and ISO141 protocols, supporting J2534 programming and diagnostics.

Pre & Post Diagnostic Report

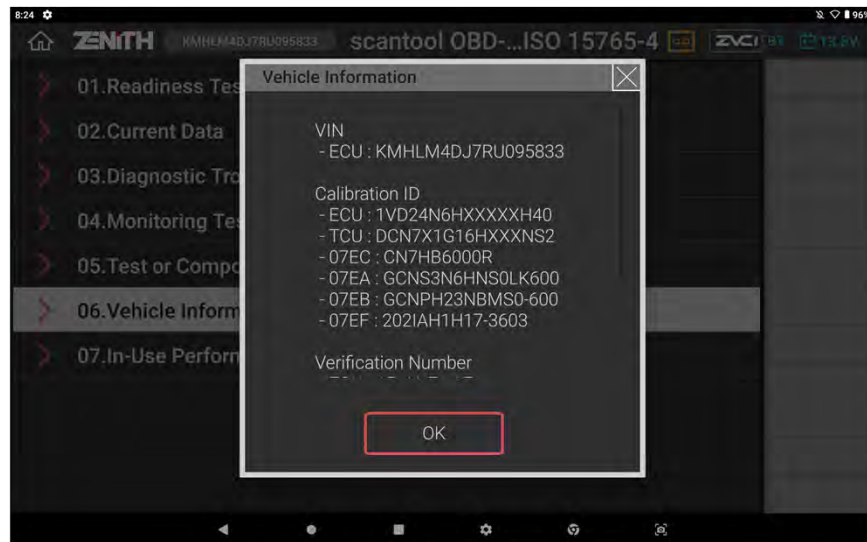


Zenith offers easy creation of diagnostic report with Pre-scan and Post-scan result. Not only user can save the reports as PDF file, also with the help of its robust network connectivity, user can print the report directly with a blue-tooth printer or send them to desired E-mail address.

Zenith Scan Tool

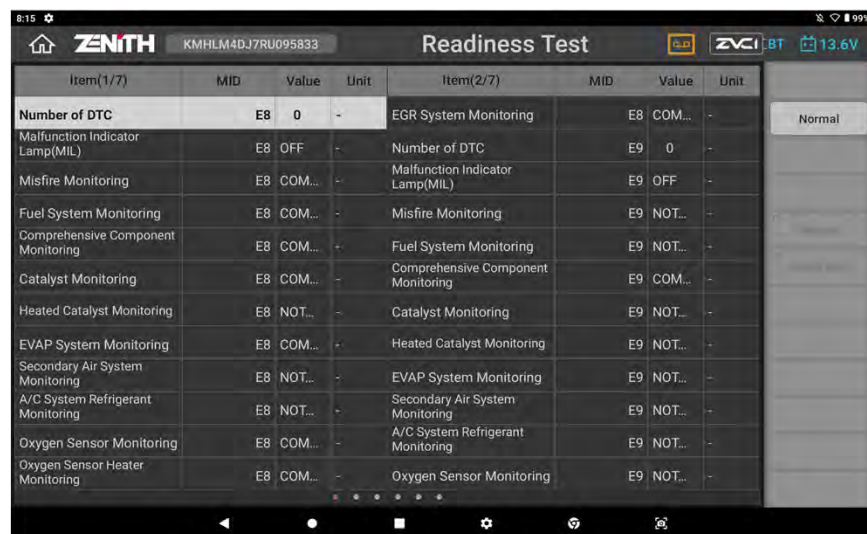


Zenith Scan Tool



11

Zenith Scan Tool



12

Zenith Scan Tool

8:15 ZENITH KMHLM4DJ7RUD95833 Current Data ZVC BT 13.5V

Item	MID	Value	Unit
☐ Fuel System Status-Bank1	E8	CLSD LOOP	-
☐ Fuel System Status-Bank2	E8	-	-
☐ Calculated Load Value	E8	15.7	%
☐ Engine Coolant Temperature Sensor	E8	45	°C
☐ Short Term Fuel Trim-Bank1	E8	7.0	%
☐ Long Term Fuel Trim-Bank1	E8	-1.6	%
☐ Manifold Absolute Pressure Sensor	E8	30	kPa
☐ Engine Speed	E8	1407	rpm
☐ Vehicle Speed Sensor	E8	0	km/h
☐ Ignition Timing Advance for 1 Cylinder	E8	16	°
☐ Intake Air Temperature Sensor	E8	18	°C
☐ Air Flow Rate from Mass Air Flow Sensor	E8	3.74	g/s

Full Graph Record

DORMAN
TRAINING CENTER
13

13

Zenith Scan Tool

8:26 ZENITH KMHLM4DJ7RUD95833 Current Data ZVC BT 13.5V

Item	MID	Value	Unit
☐ Command EGR	E8	99.2	%
☐ EGR Error	E8	0.0	%
☐ Command Evaporative Purge	E8	14.9	%
☐ Fuel Level	E8	198	-
☐ Number of Warm Since DTC Cleared	E8	5238	mile
☐ Distance Since DTC Cleared	E8	29	inHg
☐ Barometric Pressure	E8	0.99	-
☐ Equivalence Ratio-Bank1/Sensor1	E8	-0.08	mA
☐ Oxygen Sensor Current-Bank1/Sensor1	E8	1045.8	°F
☐ Catalyst Temperature-Bank1/Sensor1	E8	142.7	°F
☐ Catalyst Temperature-Bank1/Sensor2	E8	COMPLETED	-
☐ Misfire Monitoring	E8	NOT COMPLETED	-
☐ Fuel System Monitoring	E8		

Full Graph Record

DORMAN
TRAINING CENTER
14

14

Zenith Scan Tool

8:15 99%

ZENITH KMHLM4DJ7RU095833 Readiness Test

OLD BT 13.6V

Item	MID	Value	Unit
☐ Number of DTC	E8	0	-
☐ Malfunction Indicator Lamp(MIL)	E8	OFF	-
☐ Misfire Monitoring	E8	COMPLETED	-
☐ Fuel System Monitoring	E8	COMPLETED	-
☐ Comprehensive Component Monitoring	E8	COMPLETED	-
☐ Catalyst Monitoring	E8	COMPLETED	-
☐ Heated Catalyst Monitoring	E8	NOT APPLICABLE	-
☐ EVAP System Monitoring	E8	COMPLETED	-
☐ Secondary Air System Monitoring	E8	NOT APPLICABLE	-
☐ A/C System Refrigerant Monitoring	E8	NOT APPLICABLE	-
☐ Oxygen Sensor Monitoring	E8	COMPLETED	-
☐ Oxygen Sensor Heater Monitoring	E8	COMPLETED	-

Full



15

Zenith Scan Tool

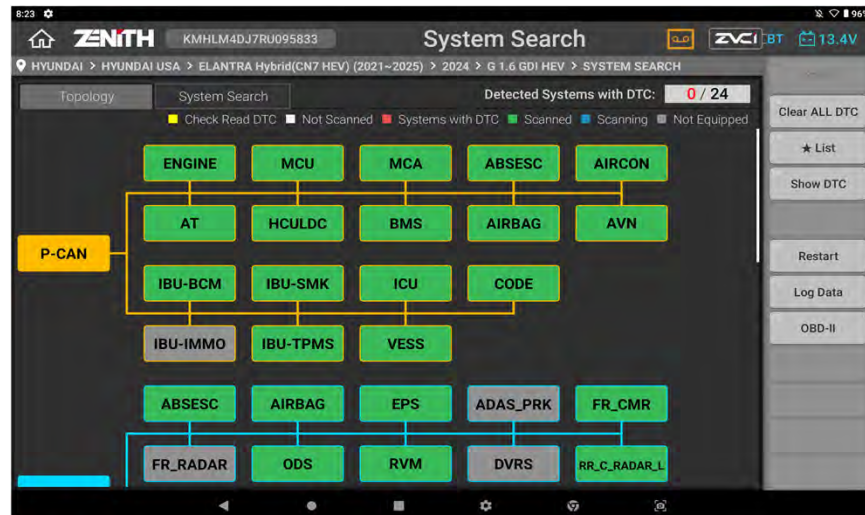
The screenshot displays the 'Catalyst Monitor-Bank1' application interface. At the top, the status bar shows '8:25' and '95%' battery. The app header includes the 'ZENITH' logo, the identifier 'KMHLM4DJ7RU095833', and the title 'Catalyst Monitor-Bank1'. To the right of the title are icons for 'A.D.' and 'ZVC', and a 'BT' status indicator. Below the header is a table with the following columns: Item, MID, ComplID, Max, Min, Value, Unit, and Result. The first row of data shows 'Test ID \$B4' with a status icon, MID 'E8', ComplID '05', Max '0.800', Min '0.000', Value '0.062', Unit '-', and Result 'Pass'. The table is followed by a large grid area. On the right side of the screen, there are three buttons: 'Full', 'Graph', and 'Select Item'.

Item	MID	ComplID	Max	Min	Value	Unit	Result
Test ID \$B4	E8	05	0.800	0.000	0.062	-	Pass

DORMAN
TRAINING CENTER
16

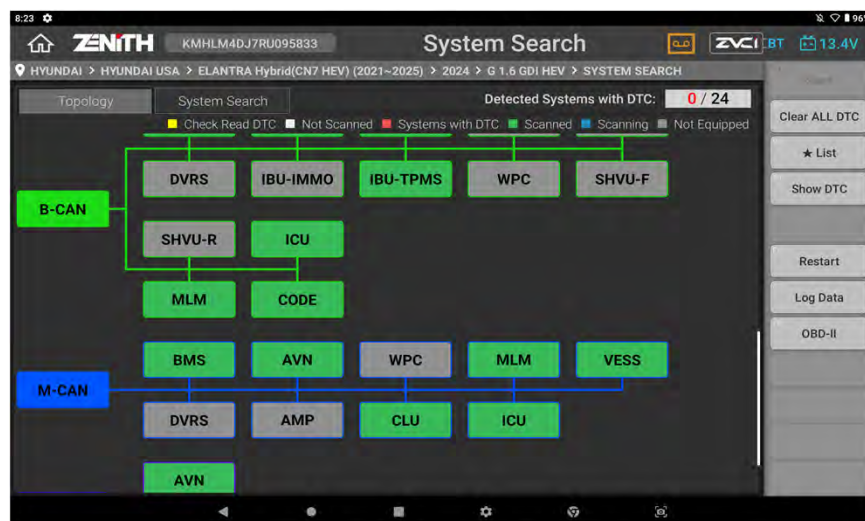
16

Zenith Scan Tool



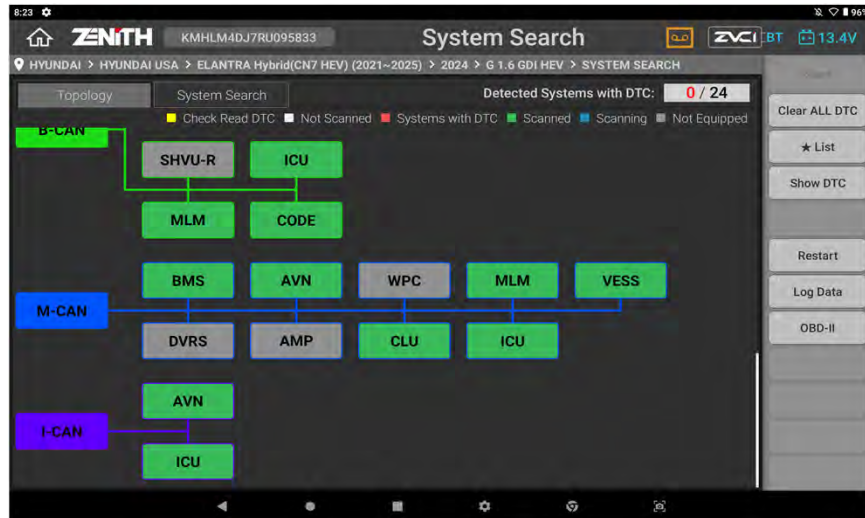
17

Zenith Scan Tool



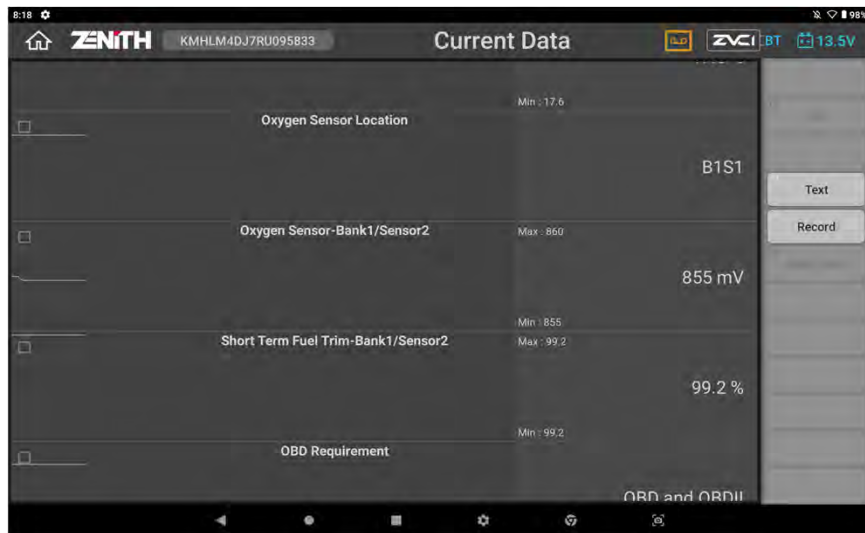
18

Zenith Scan Tool



19

Zenith Scan Tool



20

Zenith Scan Tool



21

Zenith Scan Tool



22

Zenith Scan Tool

Item	MID	ComplID	Max	Min	Value	Unit	Result
☐ Test ID \$84	E8	04	1.000	0.000	0.000	-	Pass
☐ Test ID \$8B	E8	04	32.767	0.700	1.038	-	Pass
☐ Test ID \$8C	E8	04	32.767	0.700	1.038	-	Pass

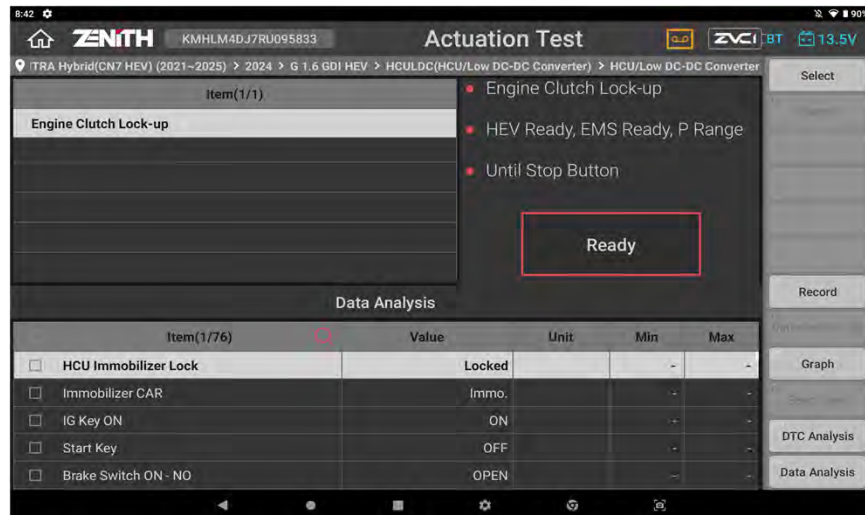
23

Zenith Scan Tool

Test ID	Value
Test ID \$84	0.000
Test ID \$8B	1.038
Test ID \$8C	1.038

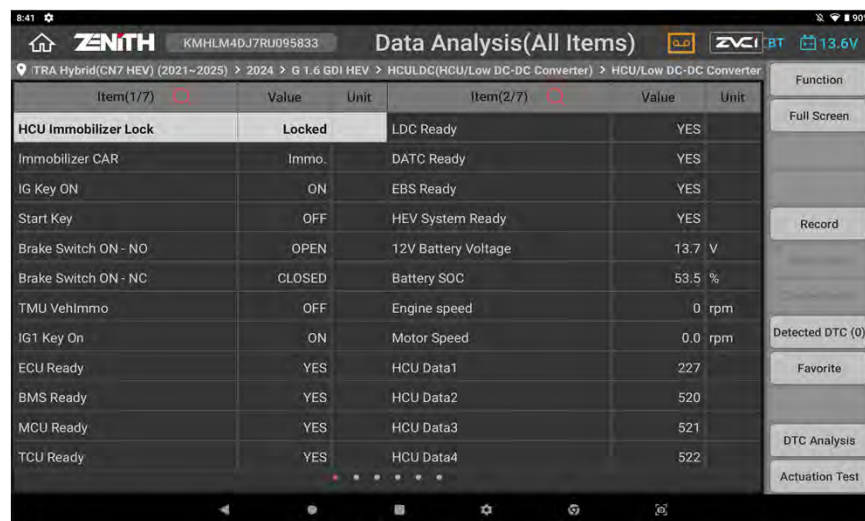
24

Zenith Scan Tool



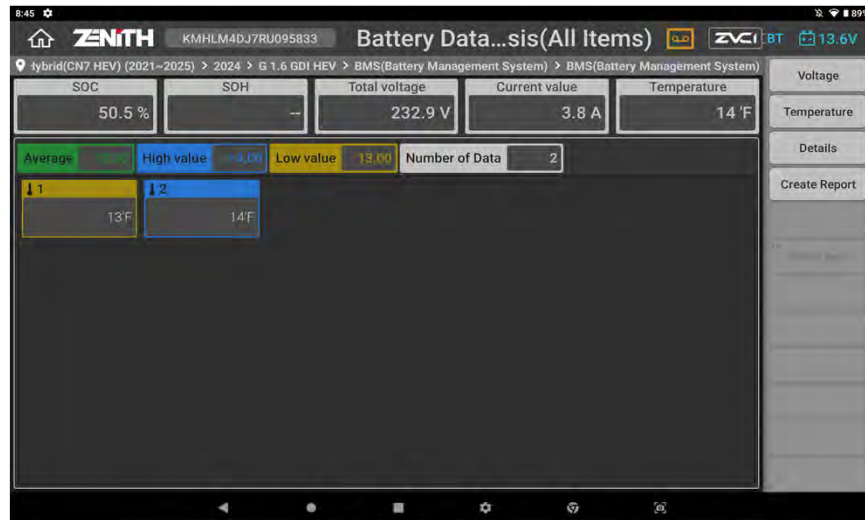
25

Zenith Scan Tool



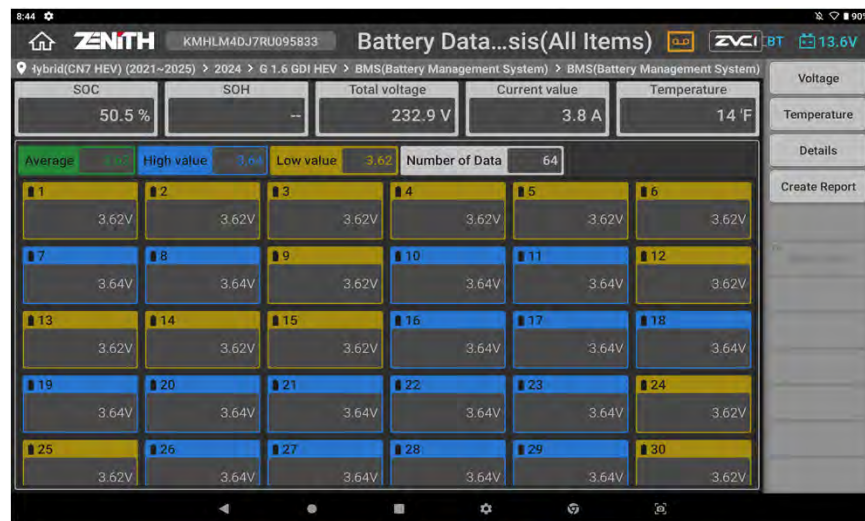
26

Zenith Scan Tool



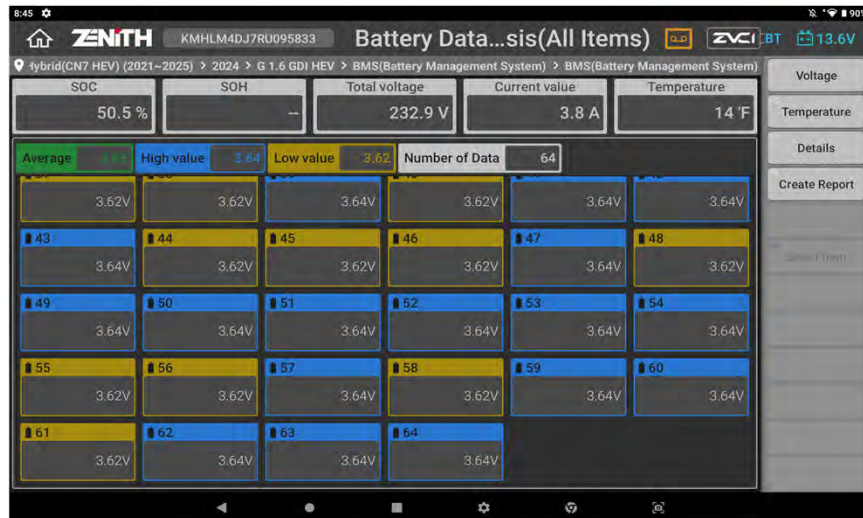
27

Zenith Scan Tool



28

Zenith Scan Tool



DORMAN
TRAINING CENTER
29

29



"Dorman Training"

Hands-On: Advanced Automotive Lab Scopes (Part 1)



In the first part of this series, students will learn how to unlock the power of their digital storage oscilloscope (DSO). Whether you have never used a scope, have just begun to explore what it can do, or have been using it routinely, this class will help you move to the next level of competency.

Technicians / Students will learn:

- How to acquire a signal using the voltage, time and trigger settings on the scope
- The difference between DC and AC coupling and how to use them
- How to acquire a variety of common signal types
- How to use both high and low amp current probes
- How to analyze common system and component waveforms

In addition to interactive classroom demonstrations, this class will also feature real world applications on subject vehicles in the shop. Students must bring their personal lab scope to the class. Our instructors can assist users of the most popular brands (Autel, EScope, Launch, Pico, and Snap-On), **www.dormanproducts.com**. Class attendance is limited to 12 students.

Lunch will be provided. **Date: Saturday, December 13, 2025**

Instructor: G. Truglia Sign-in and food: 7:30 a.m. EST

Training: 8:00 a.m. - 4:30 p.m. EST 10 Lupat Plaza Mahopac, NY 10541

In Shop LIVE TRAINING
gtruglia@
dormanproducts.com

Heavy Duty Advanced Braking Systems



This course is intended to meet the needs of the in-service heavy vehicle technician to service, repair, maintain and diagnose various types of heavy vehicle brake systems.

This full-day course will cover:

- An ABS module and covers regulations
- Brake system theory and operation
- Components and how they function
- The impact of friction material
- How to maintain a balanced braking system

Emphasis is placed on the importance of proper repairs and inspections to meet all of today's regulations pertaining to the brake system. **Date: Fri Oct 31**

Included in price: \$300.00 - Full color workbook

8:00 a.m. - 4:30 p.m. EST

Breakfast and Lunch - Dorman Training Center

Instructor: Swede Oun & G. Truglia

DORMAN
TRAINING CENTER
30

30

Questions?



31

Thank You !

Please click or scan the **QR codes** to fill out a quick **survey** about this webinar, join our **Facebook group** or sign up for our **newsletters**.



Webinar Survey



Facebook Group



Newsletters



32

32