

BATTERY END-OF-LINE (EOL) TESTER



QUESTIONS?

+49 241 168 090
ask@digatron.de

ONE-STOP SOLUTION FOR TESTING LITHIUM BATTERY MODULES & PACKS



SOLUTION MODULES YOU CHOOSE:

- High Voltage Insulation/Withstand Test
- Leakage Test for Cooling/Housing System
- Optical Inspection
- BMS Programming, Configuration and Verification
- BMS General Diagnosis
- Charge/Discharge Test
- SOC Verification Cycle
- BMS Sensor Verification
- Simulation of Charging Stations
- Temperature Sensor Verification
- Simulation of Fault conditions

BROUGHT TO YOU BY DIGATRON & DSA

Digatron - an innovator within the battery industry with advanced turn-key solutions for battery testing partners with DSA - a specialist for innovative communication solutions for automotive electronics. Together, their expertise brings the best of both worlds to improve the production quality of your lithium battery modules & packs, establishing one-stop solution for end of line testing.



SOLUTION



EXPANDABLE



DATA ANALYTICS



CUSTOMIZED

DIGATRON.COM
DSASYSTEMS.COM



KEY FEATURES

ONE-STOP SOLUTION

One-stop solution for lithium battery EOL testing including all kinds of tests like-electronic test, leakage test, BMS programming and configuration, charge & discharge test etc.

CUSTOMIZED

We develop customized and exactly fitting solutions as per your requirement with trend setting technology.

DATA ANALYTICS & TRACEABILITY

Centralized database for analytics and traceability that leads to electrical and electronics testing from one source, providing continuous optimization of battery manufacturing and assembly.

EXPANDABLE

It can be expanded to higher power or with additional tests.

FUNCTIONS & APPLICATIONS OF BATTERY EOL TESTER

FUNCTIONS	APPLICATIONS
High Voltage Insulation/Withstand Test:	<ul style="list-style-type: none">• Test identifies possible insulation faults in HV components and/or HV cables.
Leakage Test for Cooling/Housing System:	<ul style="list-style-type: none">• Test ensures that no cooling liquid or water gets inside the HV battery.
Optical Inspection:	<ul style="list-style-type: none">• Optical inspection with checklist app or automated optical inspection system.
BMS Programming, Configuration & Verification:	<ul style="list-style-type: none">• Updating the operating software of the BMS control unit and vehicle-specific configuration of the battery.
BMS General Diagnosis:	<ul style="list-style-type: none">• Error codes, general status, cell voltage, current, temperature, I/Os.
Charge Test:	<ul style="list-style-type: none">• BMS current sensor verification (charge current and voltage measurement)• Set the desired SOC (State Of Charge). Make sure that the battery is sufficiently charged for the further production process.
Discharge Test:	<ul style="list-style-type: none">• High Current Discharge• DCIR (internal DC resistance)• Thermal hot spots detection (with IR optical inspection/IR analysis software)• Controlled fuse test
SOC Verification Cycle:	<ul style="list-style-type: none">• Defined cycle that is needed by BMS to calculate SOC
BMS Sensor Verification:	<ul style="list-style-type: none">• Verification of the range calculation and the charging, discharging functions and overcharge protection
Simulation of Charging Stations:	<ul style="list-style-type: none">• Ensure that communication between the charging station and the internal charging electronics works properly.• Worldwide standards: CCS/GB/T27930/CHAdeMO
Temperature Sensor Verification:	<ul style="list-style-type: none">• Reference measurement for verification of the temperature sensors
Simulation of Fault conditions:	<ul style="list-style-type: none">• Simulate short circuit• Connect external resistors

Aachen, Germany

+49 241 168 090

+49 241 168 0919

info@digatron.de

www.digatron.de

Shelton, (CT), USA

+1 203 446 8000

+1 203 446 8015

info@digatron.com

www.digatron.com

Qingdao, China

+86 532 8608 9988

+86 532 8608 9909

info@digatron.com.cn

www.digatron.com.cn

Pune, India

+91 20 27464855

+91 20 27471682

cmo@adordigatron.com

www.adordigatron.com

Milan, Italy

+39 02 56569844

info@digatronsistemas.com

www.digatronsistemas.com

