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HV BATTERY HOUSING

The HV battery housing protects the individual HV battery cells (and other HV components) against environmental influences (dirt, rain, snow ...). After service / maintenance work on an HV battery, the tightness of the HV battery housing must be measured and documented. Autotestgeräte Leitenberger offers the right testing and measuring tools for both the pressure drop method and the flow method:

LEAK TESTING OF HOUSINGS AND COMPONENTS



item number :
LTA 01_LR

DESCRIPTION

Applications:

- Leak test on components and housings, such as HV batteries, HV wiring harnesses, headlight housings, etc.
- Working / measuring range:
- Vacuum / pressure: -50... + 50 mbar, 0.5% FSS
- Mass flow method: -200... + 200 sccm / min

Accuracy flow sensor:

- 0... 40 sccm / min -> 0.25% FSS and
- 40 ... 200 sccm / min -> 2.5% of the measured value
- steering
- Fully automatic testing system
- Freely programmable test profiles (test pressure / vacuum, test duration, test tolerances [OK / not OK], number of test steps, etc.)
- In the admin level, the individual test profiles are created quickly and easily and saved for retrieval
- The test profiles created can then be easily called up and started at the user level
- Test options: pressure change method and flow method
- Integrated pressure and vacuum pump
- Documentation of the measurement results [test report] directly on USB 2.0 stick
- Operation via touchscreen

Weight: approx. 12 kg

Dimensions: L x W x H: 45 cm x 45 cm x 32 cm

Supply voltage: 110/230 VAC 50 Hz / 60 Hz

Note: The data listed here describe our standard product. Individual applications with your requirements are possible at any time. We look forward to your inquiry.

LEAK TEST DEVICE FOR BATTERY HOUSINGS



item number :
LTBG 04

DESCRIPTION

- With LTBG 04, forming gas [N95 / H5] can be introduced into test objects.
- A detector for forming gas (e.g. ELS 04, NOT included in the scope of delivery LTBG 04) can be used to locate leaks.
- Inlet pressure: max. 10 bar
- Outlet pressure: 25 mbar

DIGITAL LEAK TEST SET FOR BATTERY HOUSING (MEASURING RANGE: -200 ... + 200 MBAR)



item number :
LTBGD 10_EV (042733_1)

DESCRIPTION

For fast, professional and precise leak testing of various components

E.g. for leak testing on high-voltage battery housings of hybrid and electric vehicles

Leak test in a vacuum (-200 mbar) and / or pressure range (+200 mbar) can be carried out

Special HV connection * for introducing vacuum or pressure into the battery housing (* HV = High Voltage)

Detection of low pressure drop

High-performance quality product made in Germany

all individual parts available as spare parts

Technical specifications:

- Measuring range: -200 mbar ... + 200 mbar
- Accuracy: 0.5% FS
- Resolution: 0.1 mbar (0.0001 bar)
- Pressure drop method

SCOPE OF DELIVERY

- 1 basic device with digital precision manometer, hoses and quick coupling
- 1 pressure / vacuum pump
- 1 test adapter
- 1 test cap
- Delivery in a sturdy plastic case

LEAK TEST SET DIGITAL) FOR BATTERY HOUSING (MEASURING RANGE: -50 ... + 50 MBAR)



item number :
LTBGD 03_EV (042716_2)

DESCRIPTION

- For quick, professional and accurate leak testing of various components; e.g. for leak testing on high-voltage battery housings of hybrid and electric vehicles
- Possibility to perform leak testing in vacuum (-50 mbar) and/or pressure range (+50 mbar)
- special HV connection* for introducing vacuum or pressure into the battery housing (*HV = high voltage)
- Detection of even minor pressure drops
- High performance quality product made in Germany
- all individual parts available as spare parts
- Technical data:
- Measurement range: -50 mbar ... +50 mbar;
- Accuracy: 0.5% FS;
- Resolution: 0.1 mbar (0.0001 bar)
- Pressure drop method

Also available in analogue version with a resolution of 5 mbar and accuracy 1.6% FS. Even the smallest leaks can be diagnosed in conjunction with the DFG 200.

SCOPE OF DELIVERY

- 1 basic instrument with digital precision pressure gauge, hoses and quick coupling
- 1 pressure / vacuum pump
- 1 test adapter
- 1 test seal
- Ships in a rugged plastic case

EQUIPMENT

- DFG 200 flow gauge with digital pressure measurement and display
- DFG 200_230VAC_S flow gauge with digital pressure measurement and display (USB)

DIGITAL LEAK TEST SET FOR LARGE-VOLUME BATTERY HOUSINGS (MEASURING RANGE: -200 ... +200 MBAR)



item number :
LTBGD 12_EV (042734_1)

DESCRIPTION

- For quick and professional leak testing of various components
- E.g. for leak testing on high-voltage battery housings of hybrid and electric vehicles
- Leak test in a vacuum (-200 mbar) and / or pressure range (+200 mbar) can be carried out
- Special HV connection * for introducing vacuum or pressure into the battery housing (* HV = High Voltage)
- Pressure or vacuum generation via the workshop compressed air
- Detection of low pressure drop
- High-performance quality product made in Germany
- all individual parts available as spare parts
- Technical specifications:
 - Measuring range: -200 mbar ... + 200 mbar
 - Accuracy: 0.5% FS
 - Resolution: 0.1 mbar (0.0001 bar)
 - Pressure drop method

SCOPE OF DELIVERY

- 1 basic device with digital precision manometer, hoses and quick coupling
- 1 precision pressure regulator
- 1 venturi nozzle with pressure regulator
- 1 test adapter
- 1 test cap
- Delivery in a sturdy plastic case

DIGITAL LEAK TEST SET FOR LARGE-VOLUME BATTERY HOUSINGS (MEASURING RANGE: -50 ... +50 MBAR)



item number :
LTBGD 05_EV (042717_2)

DESCRIPTION

- For quick and professional leak testing of various components; e.g. for leak testing on high-voltage battery housings of hybrid and electric vehicles
- Possibility to perform leak testing in vacuum (-50 mbar) and/or pressure range (+50 mbar)
- special HV connection* for introducing vacuum or pressure into the battery housing (*HV = high voltage)
- Pressure or vacuum generation via the workshop's compressed air supply
- Detection of even minor pressure drops
- High performance quality product made in Germany
- all individual parts available as spare parts
- Technical data:
 - Measurement range: -50 mbar ... +50 mbar
 - Accuracy: 0.5% FS;
 - Resolution: 0.1 mbar (0.0001 bar)

- Pressure drop method
- Also available in analogue version with a resolution of 0.1 mbar and accuracy 1.6% FS.
- Even the smallest leaks can be diagnosed in conjunction with the DFG 200.
- **SCOPE OF DELIVERY**
- 1 basic instrument with digital precision pressure gauge, hoses and quick coupling
- 1 precision pressure regulator
- 1 venturi nozzle with pressure regulator
- 1 test adapter
- 1 test seal
- Ships in a rugged plastic case

EQUIPMENT

- DFG 200 flow gauge with digital pressure measurement and display
- DFG 200_230VAC_S flow gauge with digital pressure measurement and display (USB)

TIGHTNESS TEST OF BATTERY HOUSINGS WITH LARGE-VOLUME (MEASURING RANGE: -50 ... + 50 MBAR)



item number :

LTBG 05_EV (042717_1)

DESCRIPTION

- For quick and professional leak testing of various components; e.g. for leak testing on high-voltage battery housings of hybrid and electric vehicles
- Possibility to perform leak testing in vacuum (-50 mbar) and/or pressure range (+50 mbar)
- special HV connection* for introducing vacuum or pressure into the battery housing (*HV = high voltage)
- Pressure or vacuum generation via the workshop's compressed air supply
- Detection of even minor pressure drops
- Tightness self-test of the set through the test seal (for sealing the test adapter)
- High performance quality product made in Germany
- all individual parts available as spare parts
- Technical data:
- Measurement range: -50 mbar ... +50 mbar
- Accuracy: 1.6% FS
- Resolution: 5 mbar (0.005 bar)
- Pressure drop method
- Also available in digital version with resolution 0.1 mbar and accuracy 0.5% FS.
- Even the smallest leaks can be diagnosed in conjunction with the DFG 200.

SCOPE OF DELIVERY

- 1 basic instrument with analogue precision pressure gauge, hoses and quick coupling
- 1 precision pressure regulator
- 1 venturi nozzle with pressure regulator
- 1 test adapter
- 1 test seal
- Ships in a rugged plastic case

EQUIPMENT

- DFG 200 flow gauge with digital pressure measurement and display
- DFG 200_230VAC_S flow gauge with digital pressure measurement and display (USB)

TIGHTNESS-TEST-ADAPTOR FOR BATTERY CASES VIA HV-CONNECTION



item number :
LTBG_PA 01_LR (042728_1)

DESCRIPTION

- Adapter for connection to the battery housing via the high-voltage connection.
- For introducing pressure or vacuum for leak testing.

TIGHTNESS-TEST-ADAPTOR FOR ALL LTBG DEVICES



item number :
LTBG_PV 01_LR (042729_1)

DESCRIPTION

- Adapter for closing the LTBG test adapter (LTBG_PA01_LR)
- For leak testing the LTBG devices (self-test)

FLOW GAUGE WITH DIGITAL PRESSURE MEASUREMENT AND DISPLAY



item number :
DFG 200 (042724_1)

DESCRIPTION

- For quick, exact and extremely precise leak testing in connection with LTBG_03 or LTBG_05 (vacuum and pressure generation); e.g. for leak testing on high-voltage battery housings or other components
- For digital measurement of pressure (max. 1.7 bar.) or leak rates in the range of 0 ... 200 ml (cm³)/min; even the tiniest and smallest leaks or air flows / movements can be diagnosed

- Technical data:
- Measurement range: 0...200 ml (cm³)/min
- Flow max .: 10 slpm (standard litres per minute)
- Max. pressure: 1.7 bar
- Accuracy: 3% FS
- Power supply: 9V block battery (not included)
- Dimensions: L/W/H: 190x110x50 mm (without hoses)
- Hose length: 50 cm
- Weight: approx. 400 g
- High performance quality product made in Germany
- all individual parts available as spare parts

Note: DFG 200 works according to the mass flow method. This method is a supplement to the pressure loss test / pressure drop method and detects even the smallest air flows.

SCOPE OF DELIVERY

- Supplied in solid plastic case

EQUIPMENT

- LTBG 03_EV Leakage test set for battery housing
- LTBGD 03_EV Leakage test set (digital) for battery housing
- LTBG 05_EV Leakage test set for large battery housings (larger than 5 cdm)
- LTBGD 05_EV Leakage test set (digital) for large battery housings (larger than 5 cdm)

FLOW GAUGE WITH DIGITAL PRESSURE MEASUREMENT AND DISPLAY



item number :

DFG 200_230VAC_S (042724_2)

DESCRIPTION

- For quick, exact and extremely precise leak testing in connection with LTBG_03 or LTBG_05 (vacuum and pressure generation); e.g. for leak testing on high-voltage battery housings or other components
- For digital measurement of pressure (max. 1.7 bar.) or leak rates in the range of 0 ... 200 ml (cm³)/min
- Even the tiniest and smallest leaks or air flows / movements can be diagnosed
- including software for displaying, recording and documenting the measured values on the PC
- Technical data:
- Measurement range: 0...200 ml (cm³)/min
- Flow max .: 10 slpm (standard litres per minute)
- Max. pressure: 1.7 bar
- Accuracy: 3% FS
- Data interface: USB port
- Power supply: 230 VDC connection and power supply unit
- Dimensions: L/W/H: 190 x 110 x 50 mm (without hoses)
- Hose length (with couplings) 50 cm
- Weight: approx. 400 g
- High performance quality product made in Germany

- all individual parts available as spare parts

Note: DFG 200 works according to the mass flow method. This method is a supplement to the pressure loss test / pressure drop method and detects even the smallest air flows.

SCOPE OF DELIVERY

- 1 DFG 200_230VAC_S
- 1 Power supply 230 VDC
- 2 Adapter hose with coupling 0,5 m
- 1 USB Cabel
- 1 CD with software
- 1 Manual
- Supplied in solid plastic case

EQUIPMENT

- LTBG 03_EV Leakage test set for battery housing
- LTBGD 03_EV Leakage test set (digital) for battery housing
- LTBG 05_EV Leakage test set for large battery housings (larger than 5 cdm)
- LTBGD 05_EV Leakage test set (digital) for large battery housings (larger than 5 cdm)

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