



The digital feeler gauge



Process monitoring Information

management Quality assurance

Gap measurement in the vehicle industry

Ideas for your success



Gap measurement at the exterior

The measuring program offers extensive functionalities and can be used for mobile, semi-mobile and stationary applications.

Exterior and interior

The tactile gap measuring device gapMaster is used both for visible gaps on the exterior and interior of vehicles as well as for concealed ones such as sealing gaps.

Optimised sensors for each application

With various sensors developed especially for difficult to access and not deep gaps, measurements on different material pairings can be carried out quickly and easily.

With the device, the measured values are clearly and easily documented using test plans. The order-specific data is stored locally or via WLAN on a server in XML or CSV format and can be accessed via a USB interface.

Material independence

For hard-to-reach places

A particular advantage of the tactile sensor against optical and capacitive methods lies in its independence of the test specimen material and surface. Pre-treatment of the surface against reflections is not necessary.

Very low measuring forces of less than 0.5 N make it possible to test even fairly soft materials.

The sensor can be equipped with a flexible gooseneck to measure difficult accessible areas inside the vehicle.

The measured value is triggered by the button on the sensor cable or by the button on the instrument screen.



Sensors for different applications

Technology



Different sensor shapes

Electronics

- Test frequency 30 Hz (Android®) /100 Hz (Windows®)
- Up to 4 channels
- Display depending on the device model 7-10" LCD touch
- USB and WIFI interface

Other Applications

- Gap and distance measurement during machine and plant assembling
- Gap measurement and wear detection in rotary machines such as turbines, mixers, pumps and fans
- Measurement of roller spacings
- Gap measurement in metal sheet and plastic production and construction
- ✓ Air gap measurement on motors and generators
- Measurement of nozzle and matrix gaps
- ✓ Gap measurement in aircraft mounting
- Gaps between workpiece and gauge

Precision at every Measurement

Sensors

- Measuring limits 0.2 mm to over 10 mm
- Measuring depths 2 mm to over 500 mm
- Accuracy depend on sensor up to ± 0.03 mm
- Resolution up to 0.003 mm depending on sensor
- Touch line or point
- Measuring force depending on sensor 0.5 2 N
- Material independence
- Surface independence

Software

- Operating system depending on device model Android® and Windows®
- · Measuring software with online / order measurement
- Multi language support
- Static and dynamic measurement
- Inspection plan and order management
- Calibration
- Data format XML, CSV and PDF



Measurement in the vehicle

Exterior: bodies mirrors taillights headlights Interior: fittings seats steering wheels door panels

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Patents

MFP owns patents, approvals and proprietary rights for various products and processes.

Developments

The invention of the gap sensor offers a lot of room for further developments in this field. Against the background of 30 years of experience, *MFP* has set itself the task of supporting its customers in the gap measurement with optimized sensors, matched software for Android® and Windows® as well as Latest electronics.

Team and partners

We and our national and international partners will be pleased to pass on our extensive know-how in gap measurement technology, which we have gathered at the most diverse measurement projects and in almost all sectors since the invention of the gapMaster.

MFP -Competence in Gap Measurement

Have we aroused your interest?

Ask for more information. Our team is at your disposal for further information.

Technical changes reserved

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