

CALIPRI®
GAP

THE BEGINNING OF A NEW ERA.

Accurate, non-contact measurement of gap & flush –
as fast as never before.



next**SENSE**



WORLDWIDE UNIQUE.

Calpri-Gap is a patented handheld optoelectronic gauge for rapid, non-contact measurement of complex shaped objects. This innovative gauge provides the same functions as a vernier caliper, by allowing you to measure lengths as well as other geometrical data, such as angles or radii.



GAP & FLUSH MEASUREMENT

Calpri-Gap is the gauge for precise measuring gap & flush of two adjacent surfaces. The new non-contact solution provides far better reproducibility of measurement values than conventional measurement systems. The hand guided gauge provides multiple views from the gap from various perspectives. This enhances the accuracy significantly compared to other methods.

TOLERANT USER GUIDANCE

Measuring is easy. The user simply turns the Calpri-Gap sensor over the gap by hand. The intelligent measurement system, which is based on image processing techniques, continually records and subsequently combines the individual segments of the gap profile.

Distance and angle of the sensor with respect to the measured object need not be kept exactly constant. The System supports the user during the measurement process by continually providing acoustic feedback on the correct positioning of the sensor relative to the gap.



SHORT INSPECTION TIMES
NON-CONTACT MEASUREMENT
HANDHELD DEVICE
MOBILE & COMPACT
HIGHEST PROCESS RELIABILITY
INTEGRATED DATA MANAGEMENT



SPEED AND PRECISION

Once the entire gap profile has been recorded, the data are evaluated and the measurement values are displayed - this means that a complete measurement takes no longer than 5 seconds per gap to accomplish. The optoelectronic approach prevents the classical errors of conventional caliper measurements, such as inaccurate readings, excessive measuring force or incorrect caliper positioning. Calipri-Gap automatically assesses the quality of the profile segments recorded and eliminates the inappropriate ones. The measurement result is free from operator influence and thus objective and reproducible.



INTEGRATED DATA MANAGEMENT

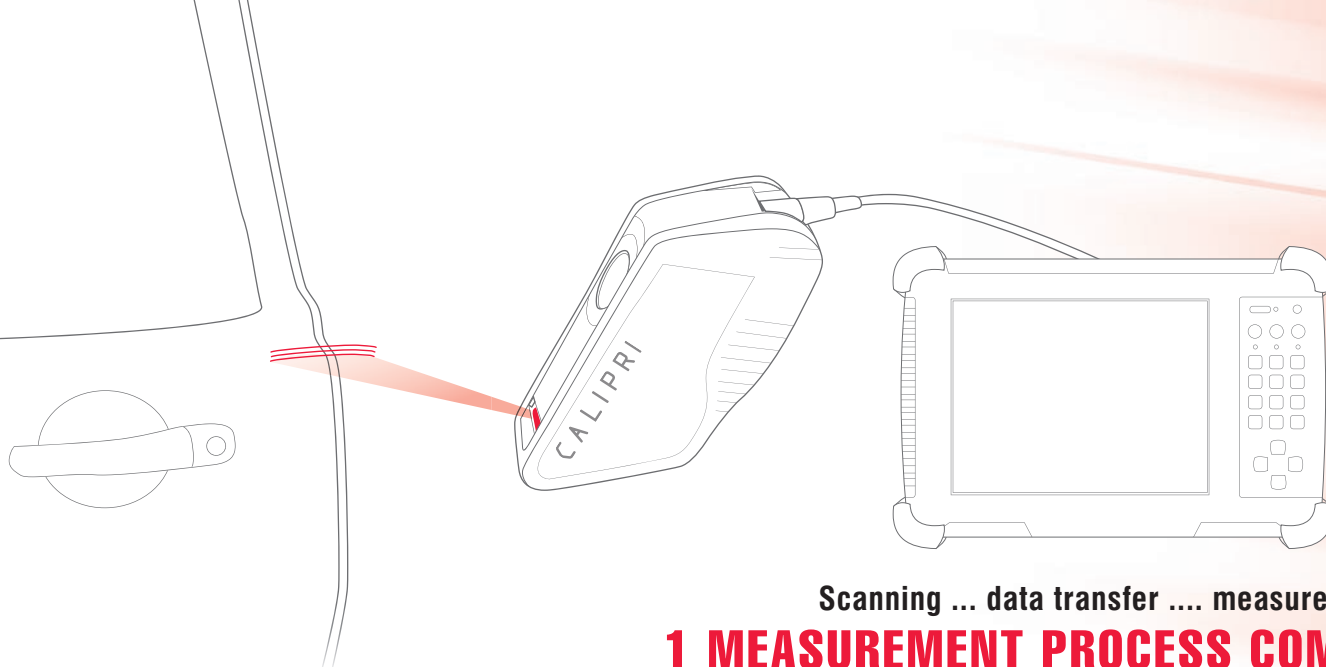
An intuitive graphical user interface guides the user through the measurement process: from selecting/entering the object to be measured (type of car body, measurement chain, ...) to measuring through to transferring the data recorded to the user's quality management system (CAQ). The fully automatic workflow and electronic data transfer prevent transcription errors.



FLEXIBILITY

Calipri-Gap calculates the dimensions out of the acquired data using configurable measurement templates. This makes the gauge suitable for a wide range of different types of gaps. Additionally it is also possible to determine special profile details.





Scanning ... data transfer measurement results
**1 MEASUREMENT PROCESS COMPLETED
 IN 5 SECONDS**

DATA TRANSFER

All measuring data are saved in XML format. XML is the generally standard for data exchange between different systems.



SCOPE OF DELIVERY

The scope of delivery of the ready-to-use measurement system includes:

- Sensor
- Connection cable
- Portable computer unit (tablet PC)
- Carrying strap
- Selftest and adjustment unit
- Hard top case with foam insert for all components
- Operating manual
- Preinstalled measurement software



TECHNICAL DATA

Dimensions:

Sensor: 86 x 72 x 188 mm (WxDxH)
 Computer unit: 288 x 195 x 39 mm (WxDxH)

Weight:

Sensor: 500 g
 Computer unit: 1400 g

Measurement range:

For all standard gaps and flushes approx. 50 x 50 mm and for special profiles

Accuracy:

+/- 0,1 mm
 Resolution:
 internal: 0,01 mm

Scanning rate:

Approx. 3 scans per second

Measurement duration:

< 5 s

Displays:

Computer unit: 8,4 inch SVGA TFT-LCD
 Sensor: 2,3 inch FSTN LCD
 I/O Ports:
 WLAN 802.11b/g
 10/100/1000 MBit Ethernet
 Bluetooth V2.0

Operating System:

Microsoft® Windows® XP
 Tablet PC Edition

Battery pack:

Lithium-Ion, battery life approx. 3 h

Environmental conditions:

Operation temperature: +5°C to +35°C
 Storage temperature: -20°C to +65°C
 Operation humidity: 20 % to 80 %
 Non-condensing
 Storage humidity: 8 % to 90 %
 Non-condensing
 Shock resistance : 100 G
 Protection class (Sensor): IP 54

Laser:

red, 660 nm, class 2M

Conformity:

CE

MEASURING ALL THINGS.

nextSENSE

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