

Groundbreaking coating thickness system for professional expert reports.

World first:

Freely configurable measuring system for image and data based documentation of expert reports on cars.



Paint Measurement

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Report #	License Number	VIN	Brand and Model	Date	Page
5	Keine Zulassung	NICHT BEKANNT	Audi A1	9/2/2011	1

Inspector	Comment
John Doe	Ein neues Audi A1

Max value (µm)	Min value (µm)	Average total (µm)
218.0	96.9	121.0



µm	Fender FL	Door FL	Side Part FL	Rear	Side Part RR	Door FR	Fender FR	Hood	Roof
Avg	116.6	116.6	121.9	134.3	115.3	112.8	115.7	134.4	128.0
Min	107.0	102.0	104.0	97.6	96.9	102.0	108.0	124.0	127.0
Max	124.0	133.0	134.0	218.0	138.0	120.0	127.0	153.0	130.0
01	117	117	109	117	130	120	127	132	128
02	115	116	118	149	117	109	118	131	128
03	115	102	115	114	118	102	116	137	127
04	107	133	123	141	114	118	110	124	130
05	124	122	132	145	103	119	123	139	127
06	118	117	104	102	96.9	109	114	153	128
07	121	120	130	218	138	115	116	126	
08	117	111	132	125	117	108	108	130	
09	115	111	134	97.6	104	115	109	138	

blue bold values: NFe, black values: Fe



A menu driven precision measuring system setting new standards for coating thickness measurement and complete documentation in the automotive industry.

The benefits of this innovative system

The measurement of coating thickness is one of the most important aspects of car assessment, damage detection and quality control.

Working closely with car experts, we developed a sophisticated test system to satisfy real-world requirements for measurement and documentation.

The world first CarCheck System PLUS, an advancement of the CarCheck System, now enables users to configure their measuring task for a car freely. This distinctive feature allows them to define the measuring process personally using the software, determining the car parts to be measured and the number of measurements per part freely. The gauge then guides the user through the complete measuring task based on this definition.

Create a detailed measuring report by embedding original photos (or standard graphs) after finalizing the measurement.

These image and data based measuring report help experts with their work saving time and money and fulfilling today's expectations of professional high quality expertise that even stand the test of difficult cases before court.

The CarCheck System PLUS includes the CarCheck gauge with measuring probe and the CarCheck software allowing for measurement analysis and complete documentation.

Measuring total coating thickness

The CarCheck System PLUS gauge measures the total coating thickness on each base material. It takes measurements of non-magnetic coatings such as paint, chrome or zinc on steel or iron (Fe) base material as well as electrical insulated coatings such as paint or Eloxal on non-ferromagnetic base material (NFe) like aluminum or zinc. The base material – if known – can either be set to a fix measuring mode or determined automatically by the probe itself.

Communication between gauge and computer

A USB wireless adapter provides bidirectional communication between gauge and PC.

- Instead of creating the measuring task with the gauge use the convenient PC software. After entering the parameters, simply send the information from the PC to the gauge by the click of a button.
- All the measurements recorded for different parts (such as fender or engine hood) are stored within the gauge and transmitted to CarCheck software for documentation and analysis using the provided USB wireless adapter. Here the original photo of the car to be measured is embedded within the measurement report.

Working with jobs

A job is the complete measurement of a car. You can store the measurement data of up to 10 jobs at one time. The gauge can store measurements of testing areas, with arbitrary names. This enables users to name a testing area "Engine Hood" for instance, to relate the measurements sorted within that component type to the particular part.

Using its internal calendar clock the gauge saves date and time with each measurement. Traceability and transparency with regard to clients increase the value of documenting the measuring results.

User-friendly features

Maximum clearness of display

- Display shows measurements in large digits
- Display light switches on automatically when measuring
- Change display orientation by 180 degrees

Maximum control

- Green LED within the keypad confirms successful measurement
- Various features, e.g. measurements, confirmed by acoustic signal
- Ongoing data transfer between gauge and PC shown by flashing red LED

Distinctive gauge features

- Easy-to-use and intuitive gauge with menu driven measuring system
- Applicable for single measurements
- Large measuring range: up to 5000 μm (5mm) total coating thickness
- Automatic substrate recognition (Fe/NFe)
- No time consuming calibration with reference foils
- Rugged high precision device
- 3 years manufacturer warranty – "Made in Germany"
- Probe cable for close and difficult to observe parts (included in scope of supply)





Distinctive features of the CarCheck software

Entering and editing data the easy way

- Enter, store and manage car and client information regarding the measurement
- Create and manage car part markings used
- Import and export single measurement reports and databases (data of all reports)

Convenient and secure: Wireless data transfer

- Synchronize job information between gauge and PC
- Transmit measurements to the PC

Freely configurable

- Free configuration of the report
- Select the definition and number of car components freely
- Arbitrary number of measurements on a car component

Individual allocation of measurements to images/graphs

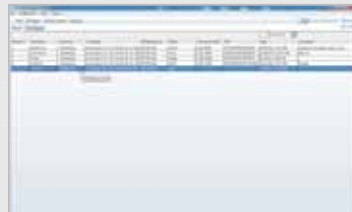
- Arbitrary placement of measurements on an original image selected by the user
- Automatic placement of measurements at positions in a grid pre-determined by the user

Creating a measurement report easy and fast

- Add images to any report for explanatory purposes
- Individualize the measurement report by embedding your company's logo
- Create and display or print measurement reports as pdf, word or excel files

Setting different languages

- Many different languages are available for gauge and software.



Job overview

The start screen shows all created jobs in a clearly arranged list that includes a filter for user-defined searches.



Job details

Create and manage all necessary data regarding the measurement task here: in addition to information on car and parts to be measured such as the engine hood, client and appraiser information is included here.



Placing the measurement

The measurements transmitted from gauge to PC are listed by component type. Use drag-and-drop to move the measurements from the list onto the image. If the measuring spots have been determined in the grid-view of the image beforehand, the gauge allocates the measurements to those spots automatically as well.

Paint Measurement

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Report #	License Number	VIN	Brand and Model	Date	Page
5	Karte Zulassung	NICHT BEKANNT	Audi A1	9/2011	1

Inspector: _____ Comment: _____
 Jobn. Date: 09/09/2011 Car model: Audi A1

Max value (µm)	Min value (µm)	Average total (µm)
218.0	95.0	121.0

Job	Color	Door	Part	Spot	Value	Color	Door	Part	Spot	Value	Hood	Spot	Value
Job 1	Red	Front	Left	101	114	Red	Front	Right	102	114	Red	103	114
Job 2	Red	Front	Right	104	114	Red	Front	Left	105	114	Red	106	114
Job 3	Red	Side	Front	107	114	Red	Side	Back	108	114	Red	109	114
Job 4	Red	Side	Back	110	114	Red	Side	Front	111	114	Red	112	114
Job 5	Red	Side	Front	113	114	Red	Side	Back	114	114	Red	115	114
Job 6	Red	Side	Back	116	114	Red	Side	Front	117	114	Red	118	114
Job 7	Red	Side	Front	119	114	Red	Side	Back	120	114	Red	121	114
Job 8	Red	Side	Back	122	114	Red	Side	Front	123	114	Red	124	114
Job 9	Red	Side	Front	125	114	Red	Side	Back	126	114	Red	127	114
Job 10	Red	Side	Back	128	114	Red	Side	Front	129	114	Red	130	114
Job 11	Red	Side	Front	131	114	Red	Side	Back	132	114	Red	133	114
Job 12	Red	Side	Back	134	114	Red	Side	Front	135	114	Red	136	114
Job 13	Red	Side	Front	137	114	Red	Side	Back	138	114	Red	139	114
Job 14	Red	Side	Back	140	114	Red	Side	Front	141	114	Red	142	114
Job 15	Red	Side	Front	143	114	Red	Side	Back	144	114	Red	145	114
Job 16	Red	Side	Back	146	114	Red	Side	Front	147	114	Red	148	114
Job 17	Red	Side	Front	149	114	Red	Side	Back	150	114	Red	151	114
Job 18	Red	Side	Back	152	114	Red	Side	Front	153	114	Red	154	114
Job 19	Red	Side	Front	155	114	Red	Side	Back	156	114	Red	157	114
Job 20	Red	Side	Back	158	114	Red	Side	Front	159	114	Red	160	114

Max. Value system: 100 µm, Check values: 74

Displaying or printing the report

Create a preview of the report including all data entered, the measurements, and the image with the placed measurements by simply clicking one button. Add additional images to the report for explanatory purposes and individualize the report by embedding the company's logo.

Further details:
www.carchecksystem.com



Technical data

Measuring range	0 ... 5000 µm
Resolution	0 ... 99.9 µm ... 0.1 µm / 100 ... 999 µm ... 1.0 µm / 1.0 ... 5.0 mm ... 0.01 mm
Probe	Dual probe, automatic substrate selection Fe/NFe *
Measuring method	Magnetic (Magnetic flux/Hall effect) or eddy current **
Standards	DIN EN ISO 2808, ISO 2178, ASTM B 499, ISO 2360, ASTM D 7091
Measuring modes	Single measurement, Measurement with structured storage
Measuring interval	ca. 1500 ms
Measuring accuracy **	0 ... 2000µm: ± (1 µm +2% of the measurement) / > 2000µm: ± 3.5% of the measurement
Memory capacity	max. 10 jobs / max. 200 parts / max. 10000 measurements
Settings	Radio on/off, display system info, buzzer on/off, date/time, unit µm/mil display light on/off, display orientation normal/flipped
Measuring surface	min. 20 x 20 mm
Radius of curvature	convex min. 5 mm / konkav min. 30 mm
Smallest substrate thickness	Fe: 0,2 mm / NFe: 0,05 mm
Interface	Wireless 2.4GHz, range max. 10m (in free field)
Temperature range	Operation: 0 ... 50°C, storage: -10 ... 60°C
Power supply	2 AA size batteries 1.5 V AlMn, or 2 AA size rechargeable batteries 1.2 V
Dimensions (length x width x height)	68 x 33 x 125 mm
Weight	125 g incl. batteries

* Measurements of non-ferromagnetic coating on ferromagnetic substrate (such as lacquer on steel or iron) and measurements of non-ferromagnetic and non-conductive coatings on non-ferromagnetic and conductive substrate (such as lacquer on aluminum, zinc, copper or brass)

** Manufacturer's calibration in regard to the supplied zero reference plates
Subject to technical modifications



Scope of supply CarCheck System Plus

- CarCheck gauge
- CarCheck probe Dual Fe/NFe 5mm/5mm
- Product CD with CarCheck PLUS software, device driver, user manual as PDF file
- Probe cable
- 2 zero reference plates (Fe and Al)
- 2 AA size batteries 1,5 V
- USB adapter for wireless data transfer between gauge and computer
- Printed short reference
- Inspection certificate of the measuring probe
- Soft pouch with belt clip
- Case for transport and storage

**2 years
guarantee***

Made in
Germany

* According to
our Terms and
conditions