Is the data available? ✔
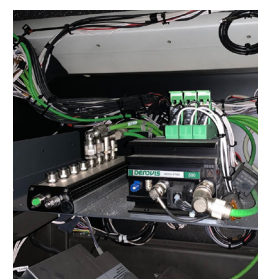Is the data complete? ✔
How is the data quality? ✔

Data Tester

When you procure new buses, you need to ensure that they meet the requirements of the contract. They must have the right technical properties, but also the content of the data interfaces is important as they supply your IT systems with important informa-

tion. As it stands today, these digital interfaces cannot simply be checked. This is where the Data Tester can help you with a simple plug and play solution that gives you a report with the information you need in just 3 steps.
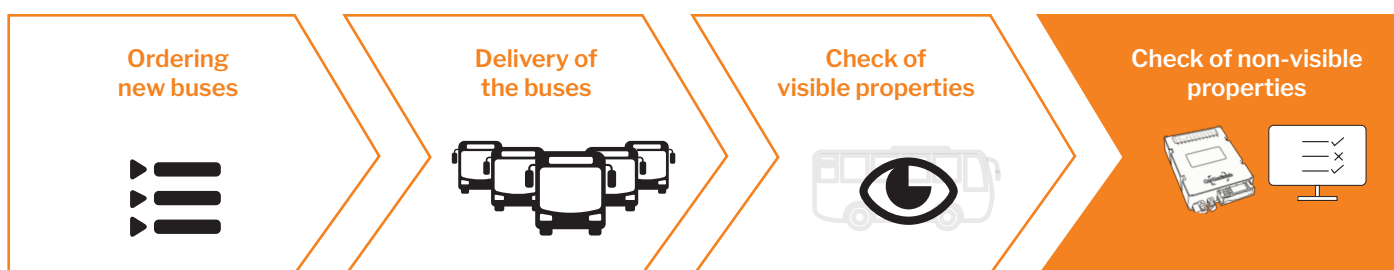
Visible properties

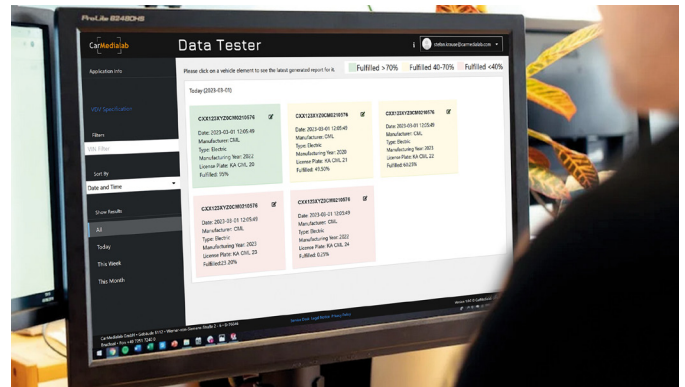|	
Color	👁
Doors	👁
Accessibility	👁

Non-visible properties

Data flow	👁
Battery data	👁
Service data	👁

Bus delivery procedure

Ordering new buses	Delivery of the buses	Check of visible properties	Check of non-visible properties

What is the Data Tester?

The Data Tester is a set consisting of a data logger and app that gives you a breakdown of the quality characteristics of your data in 3 steps within minutes. Connect. Click. Download. Promise.

Overview of the different buses.

Dashboard: Degree of fulfillment of my data

In this dashboard you can find individual vehicles which were test driven while data was being sent from the bus. By selecting a certain bus, you can see the degree of fulfillment of the vehicle. If the degree of fulfillment is low, you can use the report to apply for any shortcomings to be rectified.

Bus 1

CXX123XYZOCM0210576 ☑

Date: 2023-03-01 12:05:49
Manufacturer: CML
Type: Electric
Manufacturing Year: 2022
License Plate: KA CML 20
Fulfilled: 95 %

Fulfilled >70 %

Bus 2

CXX123XYZOCM0210576 ☑

Date: 2023-03-01 12:05:49
Manufacturer: CML
Type: Electric
Manufacturing Year: 2020
License Plate: KA CML 21
Fulfilled: 49.50 %

Fulfilled 40 - 70 %

Bus 3

CXX123XYZOCM0210576 ☑

Date: 2023-03-01 12:05:49
Manufacturer: CML
Type: Electric
Manufacturing Year: 2023
License Plate: KA CML 22
Fulfilled: 23.20 %

Fulfilled < 40 %

Easy to use

| Unpacking | Commissioning | Data collection | Login | Storage |

Why is data quality important?

The applications powered by vehicle data can only be as good as the quality of the data. Reliability is the be-all and end-all for fleet operators. Data helps at this point to make better decisions, among other things.

The basis for this is decided when purchasing the vehicle: What data is available and how? Here is an example of an evaluation of the signal "temperature interior".

Bus	Data	Evaluation		
1	270 °C	Data point present, but implausible	✖	bad
2	25,36789 °C	Data point present, but wrong resolution	✖	bad
3	21,5 °C	Data point present, plausible	✔	good

Data quality without Data Tester

When checking the delivery, non-meaningful error messages of the vehicles appear, because no good data content is available. Some error messages are general, such as "malfunction/general failure". This data is not of sufficient quality.

⊗	N/A
⚠	Malfunction/general failure
⊗	Malfunction/general failure

Better data quality with Data Tester

With better data quality you receive good quality error messages. You can see detailed descriptions: when the error happened, how many times it happened and exactly which components are affected. You get a good estimate of the technical condition of the vehicle.

⚠	Variable Valve Timing and/or Control (mode: data erratic, intermittent or incorrect)
⚠	Engine Position Sensor (mode: data erratic, intermittent or incorrect)
⚠	Engine Coolant Level 1 (mode: received network data in error)

Signal quality and fulfillment level

Indicator	Bus 1	Bus 2	Bus 3
Number of signals: OK	180	220	203
Number of non-available signals	56	10	30
Number of signals: NOK	57	45	22
Absolute fulfill ratio **> 70 %**, **40 – 70 %**, **< 40 %**	**37 %**	**75 %**	**67 %**

Signals with quality deficiencies

VDV Signal Name	Data sample
Vehicle weight total	**2.900 kg**
Engine coolant temperature	**5 °C**
Retader Torque relative	**1300 %**
High-voltage battery Voltage	**23 V**
Brake Pedal position	**-5 %**
Temperature interior	**270 °C**

Your benefit

Simply connect in the bus, start the test drive and get good data via the web application. A tool with which you can automatically and reliably test new buses. Our customer service will be happy to answer any questions.

Service	**Plug and Play**	**Multiple use**
Experts for vehicle data with personal support right by your side.	Connect, open app, download report. Simple and efficient.	One system for all buses.
Detailed error analysis	**Remote**	**All in one package**
Breakdown of faulty data in detail.	Check your data, no matter when, no matter where.	Data logger, cable set, app and manual in one case.

Data Tester Package

	Data Logger
	+ Antenna
	+ Connection cable
	+ Access to the web application
	+ Practical storage case

Contact

We are pleased to inform you about our products and services.
Contact Leandro Campo: leandro.campo@carmedialab.com.

CarMedialab

CarMedialab GmbH | Building 5112 | Werner-von-Siemens-Straße 2-6 | 76646 Bruchsal | Germany
Phone: +49 7251-7240 0 | info@carmedialab.com | www.carmedialab.com