



## Testing set for application in automobile applications

The test system ECS-3G permits the realization of resistance and pyrotechnic measurements in sub-group:

Seats, doors, cockpits, roof, etc.



Basic system

Easy to use

Applicable to intermediary test

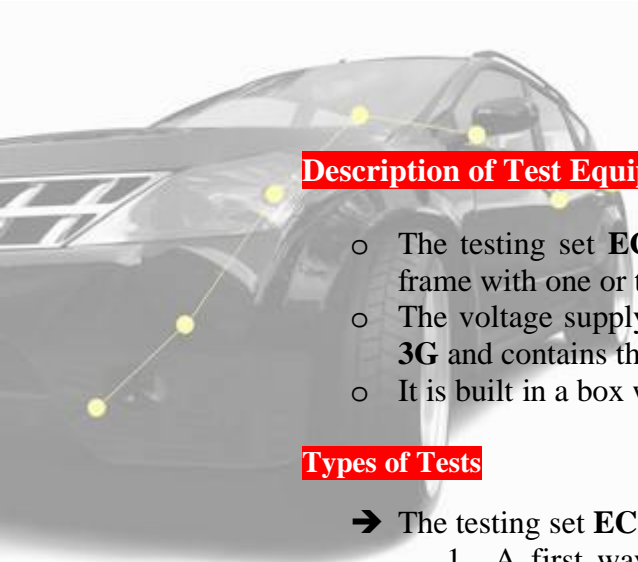


Tested elements	Measurement Types
Airbag Belt pretensioner Pyrotechnic elements	Values of the pyrotechnic element and insulation
Driver/Passenger detector A witness not belt isolation Seat Heater	Functionality control; Resistance measurement
Grounding & Conducting bundle Antenna continuity Loudspeaker	Continuity and insulation test Impedance measurement

Contact



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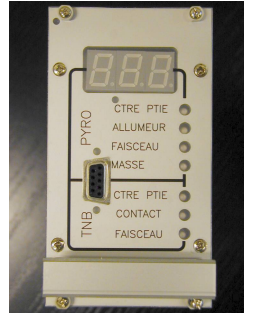


## Description of Test Equipment ECS-3G

- The testing set **ECS-3G** is in a modular frame with one or two modules supplied with 12V voltages.
- The voltage supply box supplies the energy for the operation of the module **ECS-3G** and contains the total connectivity for the link to the elements to be tested.
- It is built in a box with dimensions of approximately 42 TE- and 3U high.

## Types of Tests

- ➔ The testing set **ECS-3G** has two independent ways of testing:
  1. A first way for accuracy test (resistance measure with 4 wires)
  2. The second a so called TNB testing used for resistance tests in a higher testing range (pyrotechnic type)



- ➔ The testing set permits the detection of short-circuits by insulation test between the testing element and the supplying cables of the sub-group elements where it will be integrated.
- ➔ The tests being carried out are constantly compared with default thresholds, and the result of the test is shown at the front of the equipment and made available on the back plug in the form of dry contact (OK or NOK).
- ➔ The entirety of the tests, the default thresholds as well as the results is configurable in front of the module through the interface RS23. It is sufficient to connect there a PC with another computer equipped with Emulator Windows HyperTerminal software.
- ➔ The testing set can likewise function as a slave of external equipment. The tests are then carried out on instructions, which are transmitted with the help of dry contacts.

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## Connectic

The box consists of:

- an exit „framework “ must be connected to the framework of the sub-group, which are tested via crocodile pliers in order to permit the insulation tests (short circuit proof between the test line and the mass or the framework).
- A female connection 24 poles Harting, which permits the connection with the testing element (DUT) with the help of industrial connectors (counterpart).
- A plug for the connection with the automat (PLC)



## Industrial connectors

Specific industrial connectors planned for cycles up to 100000 connections

