Elabo Testsystems

Product information

Airbag E-Check Testing Instrument 91-7A

The testing instrument is designed especially for the test of airbags.

As measurements are possible:

Insulation resistance between "the pins and the housing" respectively "the pins against each other" in the ranges of: 10 to 100 MOhm or 100 to 1000 MOhm.

Continuity resistance of the ignition pills, the switches and the ground connection ranges 0 to 4000 Ohm.

The device is provided for connecting up to 3 igniting pills, 2 horn switches, 1 bag and 1 ground connection tests. The on-wiring and switchover are carried out via a relay matrix (3 relay PC-boards - X3 -X5). By an additional fourth relay PC-board the device can be extended by another two R/IS measurements each.

The measuring inputs of the device are assigned permanent in the software of the device, i.e. igniting pills, switches and ground must be connected to the corresponding output pins of the relay matrix. The device provides 11 different circuits for the insulation test and 11different circuits for the resistance measurement which are activated over a simple command string via RS232.

The control of the device is carried out via the RS232 interface by a PC or a PLC. The internal controller switches the measurements via command strings. The built-in display shows the measured value and the way of testing. The integrated controller returns the measurement via the RS232 interface.

Special features:

IS measurement contact monitoring
For checking the connection plug - housing an automatic contact monitoring is integrated. Before each IS test is started the device evaluates the contacting monitoring (connection to the test item). If the contacting monitoring is all right, the device separates the contact monitoring from the measuring circuit and the IS measuring starts. Through this is prevented that the intrinsic resistance of the contact monitoring has influence on the measurement result.

R-measurement sensor break detection
Through a current source a current is impressed on the respective measuring line and sense lead. If this current flow doesn't take place (sensor break), the unit recognizes this and breaks off with fault.

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Technical data

Insulation measurement:

- Measurement range:	1 GOhm
- Test voltage:	500 V DC fixed
- Measurement accuracy:	appr. 1% of measurement +/- 2 digits
- Contact monitoring	

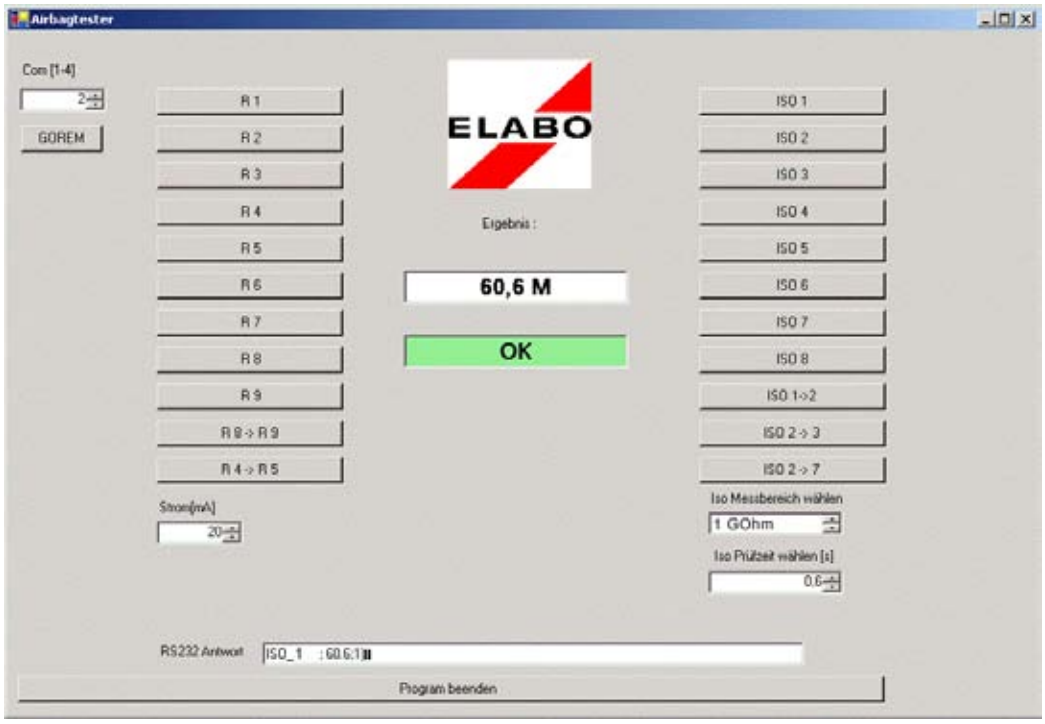
Resistance measurement:

- Test current:	adjustable between 5 to 40 mA
- Open-circuit voltage:	< 10 V
- Measurement range	4000 mOhm
- Resolution:	1 mOhm
- Measurement accuracy:	+/- 0.5% of measurement +/- 5 digit

- Contact monitoring with sense lead break detection

Size
Unit 19" / 3HU (48P) height = 134 mm, width = 244 mm, deep = 360 mm

Software tool
ELABO offers a software tool for getting to know and for running a test of the Airbag E-Check testing instrument. With this tool it is possible to carry out the 11 predefined connection possibilities of the device comfortably. The device must be connected to a test item to carry out the test.



The software architecture of the E-Check testing instrument

Reserve of technical changes, further development and improvements.

Ordering details	Catalog No.
Airbag E-Check test instrument	91-7A
Software tool for Airbag E-Check	95-9L Z91-7A
Special variants of the device on request.	