# IND 44 -Megohmmeter of pyrotechnic security

***APPLICATIONS:***

**- Automotive airbag inflator / module electrical functional tests.**

**-Seatbelt pre-tensioner actuator / module functional electrical check.**

**-High speed parralel soak dual inflator or dual test station electrical seek.**

**-High speed parallel soak dual inflator or dual test station electrical check.**

**-High speed parralel soak dual inflator.**

**-Multicontact / switch dry circuit continuity and leakage resistance measurements.**

**-Automotive power / fuse center continuity and leakage characterization.**

**-PCB / PWB and general purpose short/open circuits testing.**

***AOIP line of products***

**Compliant AS201**

**IND 43 (from 1 to 4 channels) : Ohmmeter**
Range of measurement : 0 – 15 Ohms (airbag)
Other range on demand.

**IND 44 : MegOhmmeter**
***3 versions (standard voltage of testing):***
- 45V,
- 500V.

Other voltage on demand.

Range of measurement according the testing voltage between 0,1 MegOhms and 1000 MegOhms.

**IND 45 : MegOhmmeter**
***3 versions (standard voltage of testing):***
- 45V ,
- 500V,
- Programmable (45 to 500V)

***2 versions according the number of channels*** (1 to 2 channels Ohmmeter / 1 MegOhmmeter).

**IND46 : RLC Meter.**
***RL or RC*** measurer of circuits : dedicated to the control of pyrotechnics elements on production line or laboratory.

**INT 7 : Switching unit between the IND46 and the modules to be measured.**

**INT 17 : Switching unit between the IND43, IND44, IND45 and the modules to be measured.**

**INT 17 High Voltage : Switching unit between the IND44 and 45, and the modules to be measured.**

## Testers on product line or laboratory Tests for automotive airbag inflators

This MegOhmmeter was developed to carry out **MEASUREMENTS** on **PYROTECHNICAL** elements where the **SAFETY OF the USERS** is directly concerned.

**Two types of conditions determine this safety:**

- **Conditions of measurement**
  - **A current of measurement much lower than the current of non-fire.**
  - **A connection on the line of test only for the activated period of measurement.**
  - **A flow of the residual electrical charges.**
- **Conditions of safety**
  - **The respect of a safety level of maximum current if there's a problem with the equipments** (breakdown of electronics, internal short-circuit,…).
  - **Permanent self-checking of the internal functions** of our equipments before connection on the measurement line.

## Key points

The principle of Measurement rests on an internal device of **permanent self-calibration** which guarantees, to short and long-term, a very great reliability of the measurements carried out by continuously correcting the drifts of profit and Offset.

**The parameter setting is carried out by keyboard with a locking of the parameters by key.**

Our units are equipped with **dry contact output and a RS232** to allow a connection to process automation and the implementation of traceability.

**On demand, we adapt the equipments:** adapted protocol RS232, another Testing voltage, integration,...

We suggest to yearly carry out **the calibration and to control the safety functions of your equipments.**

**Our technical experts can assist you:**

- During **the starting** of your product.
- **In the management of your park of our units and its evolution** according to your functional needs.
- **In breakdown service** on your site.
- **In integration** and globally, **in the industrial equipments of production or in Laboratory.**
- **In investigation on site for your problems of measurement.**

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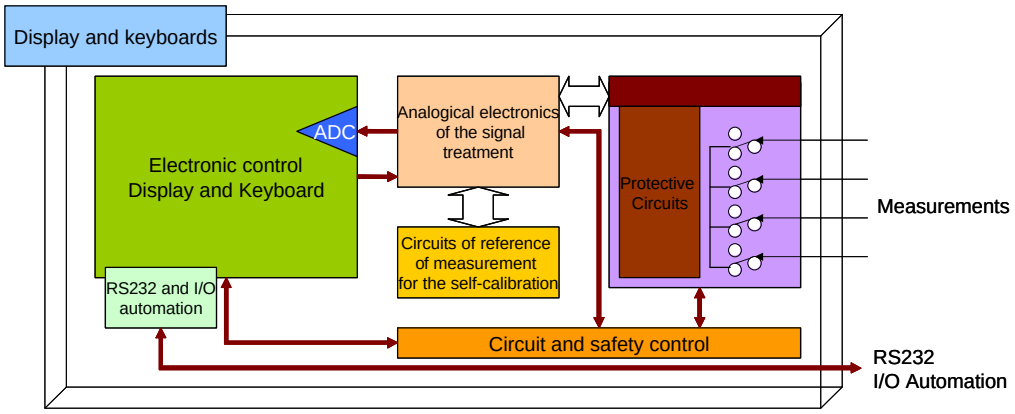
# IND44 General Specifications

| | |
|---|---|
| **Dimensions** | |
| * Box | 280 mm Wide x 155 mm High x 290 mm Deep |
| | |
| **Number of channel** | 1 |
| **Testing Voltage** | 45 V (other voltage on demand) |
| **Type and range of measurement** | 2 wires – From 0 to 100 MO (standard). |
| **Resolution** | 0,1 MO. |
| **Precision** | ±1% from 0 to 50 MO and ± 2% between 50 and 100 MO |
| **Current of measurement** | 10 mA (other current on demand) |
| **Setup** | Keyboard – locking by key for parameters |
| **Offset correction of line** | Through a mesurement of the line value with validation. |
| **Interface** | RS232 or Automation |
| **Power supply** | 220 V / 50 Hz with storage of parameters and counters. |
| **Screen** | Backlighted LCD |
| **Options** | Another testing voltage, integration, … |

## Functional description




## Customers references

**AUTOLIV**

**LIVBAG**

**NCS**

**SPRIA**

**FAURECIA**

**SAS Automotive**

**RENAULT**

**VISTEON**

**DAVEY BICKFORD**