

IND 45 – Ohmmeter / MegOhmmeter of pyrotechnic security



APPLICATIONS

- Automotive airbag inflator / module electrical functional tests.
- Seatbelt pre-tensioner actuator / module functional electrical check.
- High speed parallel soak dual inflator or dual test station electrical seek.
- High speed parallel soak dual inflator or dual test station electrical check.
- High speed parallel 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 Ohmmeter / 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**
 - o A current of measurement much lower than the current of non-fire.
 - o A connection on the line of test only for the activated period of measurement.
 - o A flow of the residual electrical charges.
- **Conditions of safety**
 - o The respect of a safety level of maximum current if there's a problem with the equipments (breakdown of electronics, internal short-circuit,...).
 - o Permanent self-checking of the internal functions of our equipments before connection on the measurement line.

Key point

The Ohmmeter uses a principle of measurement on 4 wires, which makes it possible to be freed from parasitic resistances of lines.

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.



Avenue Paul Langevin

RIS ORANGIS
91133 - FRANCE

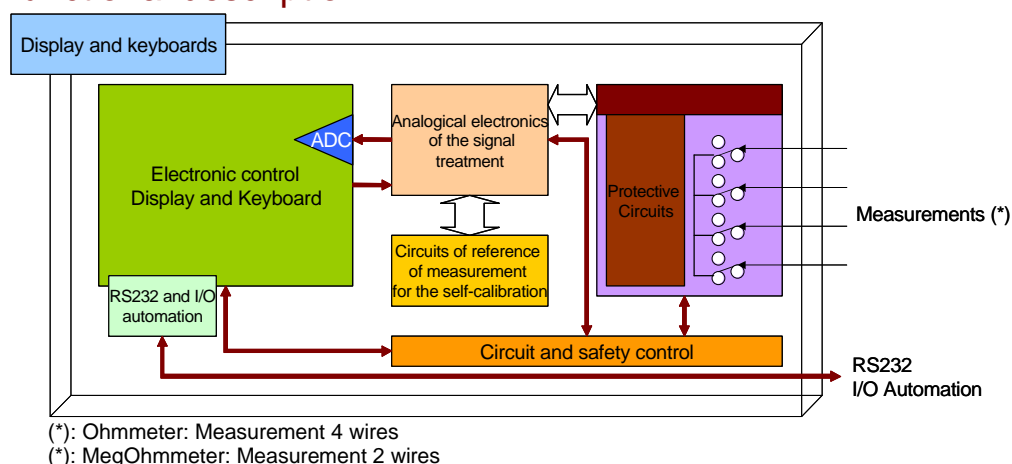
PHONE :
+33.(0)1.69.02.89.00
FAX :
+33(0)1.69.02.05.99

email address :
export@aoip.com

IND45 General Specifications

Specifications	Ohmmeter channel	MegOhmmeter channel
Dimensions	280 mm Wide x H155 mm Hide x P290 mm Deep	280 mm Wide x H155 mm Hide x P290 mm Deep
Number of channels	1 to 2	1
Type and Range of measurement	4 wires - from 0 to 15 Ohms	2 wires - from 0 to 100 MOhms
Resolution	0.01 Ohms	0.1 M Ohms
Precision	+/- 0.1 %	+/- 1% from 1 to 50 MOhms +/- 2% from 50 to 100 MOhms
Current of measurement	20 mA (other current on demand)	-
Voltage of testing	-	50 V 500 V from 50 to 500 V
Setup	Keyboard – locking by key for parameters	
Correction offset de ligne	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.	
Options	Other current of measurement, integration, ...	

Functional description



Customers references

AUTOLIV
LIVBAG
NCS
SPRIA
FAURECIA
SAS Automotive
RENAULT
VISTEON
DAVEY BICKFORD