

MF 28 - Exploder units

Applications:

- **Activation of Magnet-pyrotechnics systems by current pulse with a programmable Generator** (current of non-fire, time / energy of activation ...)
- **Instrumented tests**
- **Performance tests**

Exploder range

MF14 / MF24 / MF29 (embedded) / MF32 / MF35

Controller range

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 to 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 to 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.

Pyrosoftware continuation

ADT / TTT / ESV / Bruceton

More

Electrostatic generators of discharges (GEN DES)

Multiple generators of synchro (D87)...

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Instrumented tests Performance tests



This equipment is developed to **GENERATE PULSE OF CURRENT** on **PYROTECHNICS** elements where the **SAFETY** OF the **USERS** is concerned.

Key points

Our exploders integrate a safety pyrotechnical Ohmmeter

allowing to limit and control the current, even in the event of failure.

All our versions of exploder are equipped with a square pulse generator of current very powerful controlling the energy injected into the initiator.

They thus reconcile a very short rising time (< 10μ dry) with the disappearance of an overshoot.

The residual discharges, inopportune starting causes, are removed thanks to a short-circuit of the shot firing cables.

Various safety devices (key, push rod protected, entered external safety for door-contact interrupters/barriers) ensure a great safety for the users.

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.

Technical features

- Programmable current (precision 1%)
- Programmable timing
- Floating Shot firing cable insulated
- Safety Ohmmeter embedded
- Output of synchronization (moment zero, crenel of current, current image)
- Possibility of remote control of the cycle SAFETY AUTHORIZATION OF FIRE



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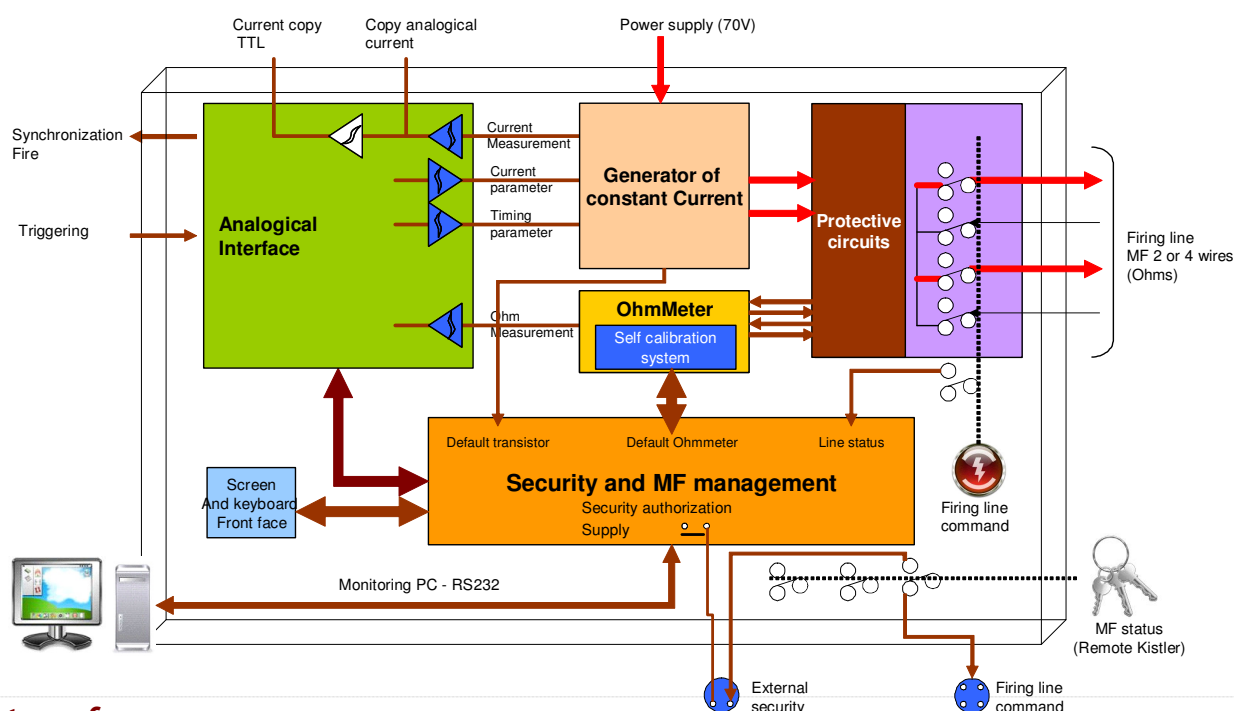
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MF28 General Specifications

TYPE	MF 28/2/4	MF 28TTT	MF 28 Bruceton
Dimensions	Rack 19" – 3U 360 mm Depth For MF28.4 Depth:460 mm	Rack 19" – 3U 360 mm Depth	Rack 19" – 3U 360 mm Depth
Number of channels	1 / 2 / 4	1	1 in standard mode From 1 to 50 in Bruceton mode
Programmable current	From 1 to 10 A	From 100 mA to 500 mA with 1 mA steps	From 1 mA to 5A
Programmable timing	From 0,1 ms to 999 s per steps of 10 µsec	From 0,01 ms to 300 sec	From 0,1 ms to 999 s per steps of 10 µsec
User Interface	Front Programming by keyboard and viewer or calculator by RS232 connection	Front programming	Front programming
Firing line Ohmmeter	Measurement 0 – 10 Ohms (20 Ohms)	From 0 to 5 Ohms	From 0 to 10 Ohms
Programmable delayed Trigger	-	-	-
Detection of rupture of charge	Current of line inhibited as of the first rupture of the igniter. An Activable Option by the user.	Yes	-
Delayed output	From 1 ms to 99 ms	-	-
Current copy	0-10V for 0-5A insulated	0-10V for 0-500 mA	0-10V for 0-5A insulated
RS232	Option	Yes	Yes
Options	- RS232 - Programmable current until 10A. - Current copy (1 output per channel).	- Delayed output from 0,01 ms to 300 sec.	- Interface tests until 50 initiators for climatic chamber.

Functional diagram



Clients references

AUTOLIV

DAVEY BICKFORD

DCN

FAURECIA

GIAT

LIVBAG

NCS

RENAULT

SPRIA

SAS Automotive

VISTEON

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