

MTSA Technopower High Energy Gap Firing Unit



For synthetic circuits there is the need for very fast and very accurate switches to switch between the current and the voltage circuits. Some of these switches are triggered by air gaps.

The MTSA High Energy Gap Firing Unit establishes the ignition (trigger) of an air gap by means of generating a conductive plasma. It is a fast responding unit. An initial high voltage/low energy pulse is followed by a second low voltage/high energy pulse. The first pulse establishes ignition by a di-electric break through. The second pulse creates the plasma. In order to achieve galvanic separation and isolation, the unit is powered by compressed air. The unit is fired via a light sensitive input device. This can be a connected to an MTSA Technopower Injection Timer or an MTSA Technopower current detector unit.

Main specifications:

Power supply	Compressed air - 6 bar
Control unit	via fiber-optic high level input (>30 mW)
Ignition pulse maximum voltage	25 kV
Elec. energy of 1 st ignition pulse	approx. 0.25 Joule/25 kV
Elec. energy of 2 nd ignition pulse	approx. 200 Joule/850 Volt
Response time	< 5 micro seconds

Do you wish more information or are you in need of a MTSA High Energy Gap Firing Unit, please contact MTSA Technopower, department E&I (tel direct: +31 (0)26 3844 282).

MTSA Technopower B.V.
Westervoortsedijk 67
6827 AT Arnhem
The Netherlands

Telephone : +31 (0)26 3636310
Telefax : +31 (0)26 3646717
E-mail : mail@mtsa.nl
Internet : www.mtsa.nl