

# WIRED EXPLODER ATLAS 450



Made in  
France

Very easy to use

Powerful : 440 V - 22 J

Rugged

Watertight IP67

Solid state

Galvanic isolation

Conformity to MIL-STD 810 G

Certification INERIS  
EMF19MA4002  
of Conformity to the French  
ordinance of Dec 11, 1992



## WIRED EXPLODER ATLAS 450

**ATLAS-450** is a hard wired electronic exploder, designed for firing of electric detonators. It is a compact, robust and powerful equipment, especially designed for missions needing an important security distance.

This device is very easy to use : pressing the CH button charges the capacitors; when the capacitors are charged, the firing can be triggered by pressing simultaneously the F button.

Two charging levels are available. The first level is reached quickly and is suitable for most applications. A second step, offering more power, is reached with extended charging, thus allowing to store more energy into the capacitors.

**ATLAS 450** exploder features many security levels :

- security key
- automatic discharge of the capacitors when the charge button is released
- permanent measurement of the capacitors voltage
- to fire 2 buttons must be pressed simultaneously
- firing is allowed only when the capacitors are charged enough
- permanent shunt on the firing output
- battery voltage monitoring
- safety sockets and plugs
- monitoring by micro-controller
- self-test of the control panel lights
- redundancy of certain functions



This exploder controls one firing line and integrate a line-continuity test. It is equipped with versatile sockets, allowing to directly clamp the leads or to connect any type of 4 mm banana plugs.

The rugged aluminium box is waterproof IP 67, Nato green color, and equipped with a polyester control panel, which integrates the buttons and the lights. The leds' luminosity level can be selected by the user and thus adapted to the work conditions (day / night).



The exploder **ATLAS 450** is power supplied by three CR 123 lithium photo batteries (cheap and widespread). A bicolour led indicates continuously the state of the batteries.

An optional maintenance dashboard software can be used to display the exploder's parameters, to test the main functions and diagnose any anomalies.

### TECHNICAL DATA

Aluminium enclosure IP 67  
 Dimensions : 200 x 80 x 45 mm  
 Weight : 580 g  
 Power supply : 3 lithium CR 123 batteries  
 Autonomy : > 300 firings at 20°C  
 1 firing output with line continuity test  
 Charging voltage : 450 V maximum  
 Energy : 22 J maximum  
 Charging time : 6 s approx. for the first step, 10 s approx. for the second step  
 Operating temperature : -20°C to +55°C

**Standards :**  
 CE conformity  
 MIL-STD 810 G, method 516 procedure II (shocks)  
 MIL-STD 810 G, method 516 procedure IV (drops)  
 MIL-STD 810 G, method 501 procedure II (temp. 55°C)  
 MIL-STD 810 G, method 502 procedure II (temp. -20°C)  
 MIL-STD 810 G, method 512 procedure I (1m immersion)  
 Conformity to the French ordinance of December 11th, 1992 (INERIS certificate)