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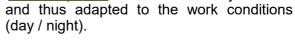
Two charging levels are available. The first level is reached quickly and is suitable for most applications. A second step, offering more power, is reached with extended charging, thus allowing to store more energy into the capacitors.

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 :** 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)