

# REMOTE CONTROLLED EXPLODER ATLAS 250 RC



Made in France



- Very easy to use
- Powerful : 390 V - 14 J
- Rugged design
- Watertight IP67
- Solid state
- Encrypted communication
- Galvanic isolation
- Autonomy 6 days in sleep mode
- Certification INERIS EMF25MA4001

## REMOTE CONTROLLED EXPLODER ATLAS 250 RC

**ATLAS 250 RC** is a radio-controlled electronic exploder, designed for remote firing of electric detonators. It is a compact, robust and powerful equipment, especially designed for missions needing an important security distance.

It consists of a control unit and 5 receiver units (paired at the factory), packaged in a foamed carrying case.

The housings are made of extremely rugged aluminium, IP 67 waterproof, painted in Nato green color. They are powered by cheap and widespread lithium batteries CR 123.

The receiver units control each one firing line and integrate a line-continuity test. They are equipped with versatile sockets, allowing to directly clamp the leads or to connect any type of 4 mm banana plugs.

The control unit allows to remotely control the receiver units individually (only one receiver unit) simultaneously (all receiver units) or by group (several receiver units, chosen by the user). Its control panel indicates in real time the important information from the receiver units : the battery voltage, the status of the radio communication, the step in the firing sequence (receiver not armed, receiver armed, capacitors charging, fully charged), and the faults.

The operation of the exploder **ATLAS 250 RC** is very easy and intuitive. The firing sequence consists in several steps, in order to strictly prevent non intentional firing and thus ensure the user's safety : safety delay, arming of the receiver units, capacitor's charging and finally firing.

This system incorporates the following levels of security : an encoded safety key, a secure encrypted communication protocol, a safety delay, a multi-step firing sequence, the presence of a shunt on the firing output, an automatic capacitors' discharge, a permanent control of the capacitors' voltage, the need to simultaneously press 2 buttons to trigger the firing, the firing is made only when the capacitors are fully charged, the safety terminals, the operation supervision by a micro-controller, and the redundancy of certain functions.



### TECHNICAL DATA

#### Receiver Unit

IP 67 aluminium housing  
 Dimensions: 200 x 80 x 45  
 Weight: 580 g  
 Power supply: 3 lithium batteries CR 123  
 Battery life: 150 hours (6 days) min at 20°C, in sleep mode  
 1 firing output with integrated continuity tester  
 Output voltage: 390 V approximately  
 Stored energy: 14 J approximately  
 Charging time : about 5 s  
 Radio frequency: 869 MHz  
 Radio Power: < 0.5W  
 Radio channel: 5 channels are available (factory)  
 Scope: > 2500 m LOS at 20°C with 1/2 wave antennas  
 Temperature: -20 ° C to + 55 ° C

#### Control Unit

IP 67 aluminium housing  
 Dimensions: 175 x 80 x 45 mm  
 Weight: 490 g  
 Power supply: 2 lithium batteries CR 123  
 Battery life: minimum 10 h at 20 ° C  
 Controls up to 5 receiver units  
 Radio frequency: 869 MHz  
 Radio Power: < 0.5W  
 Radio channel: 5 channels are available (factory)  
 Scope: > 2500 m LOS at 20°C with 1/2 wave antennas  
 Temperature: -20 ° C to + 55 ° C

#### Waterproof transit case

Dimensions : 46.2 x 34 x 17 cm - Weight : 6.3 kg