REMOTE CONTROLLED EXPLODER
ATLAS 160 RC

Made in France

7" tablet with user-friendly software

20 receiver units

Rugged design

Very compact

COMPACT REMOTE CONTROLLED EXPLODER ATLAS 160 RC

The **ATLAS 160 RC** is a radio-controlled electronic exploder, designed for remote firing of electric detonators. It is a compact equipment, especially designed for explosive method of entry and other missions requiring low firing line lengths.

It consists of a 7" tablet-based control unit and 20 receiver units (paired at the factory), packaged in foamed carrying cases.

The receiver unit's housings are extremely rugged aluminium, IP 67 waterproof, dark colors, with dominant black and grey. They are particularly well adapted to harsh environments.

The receiver units feature 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. They are powered by two cheap and widespread photo lithium batteries, model CR 123.

The tablet-based 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). It indicates real time information from the receiver units : the status of the receiver units, the batteries' voltage, the state of the radio communication, the level of capacitors' charge, the faults.

A user-friendly software allows an easy and safe control of the receiver units. It consists in several tabs that give a clear view of the available information. The user can customize the software by choosing his display settings and can import a aerial picture of the operation's area where the receiver units can be located. This gives a global view of the receiver unit's location and status.

This system incorporates many security levels :
- a secure encrypted communication protocol
- a safety delay
- multistep firing sequence
- presence of a shunt on the line
- automatic capacitors discharge
- permanent control of the capacitors' voltage,
- need to sequentially press 2 buttons to trigger firing
- firing made only when capacitors fully charged
- safety terminals
- operation supervision by a microcontroller
- redundancy of certain functions

TECHNICAL DATA

Receiver Unit
IP 67 aluminium housing
Dimensions: 90 x 80 x 45 mm, 145 x 80 x 45 overall
Weight: 450 g
Power supply: 2 lithium batteries CR 123
Battery life: 150 hours (6 days) minimum at 20 ° C, in sleep
1 firing output with integrated continuity tester
Output voltage: 30 V approximately
Stored energy: 2 J approximately
Charging time : about 4 s
Radio frequency: 869 MHz - Radio Power: < 0.5 W
Radio channel: 5 channels are available (factory)
Scope: >2500 m line of sight at 20°C with 1/2 wave antennas
Temperature: -20° C to + 55° C

Control Unit
Rugged tablet (IP65, MILSTD-810G) & USB transmitter unit
Screen : 7" - resolution 1280 x 800 px - brightness 1000 nits
OS : Win10
Dimensions: Tablet : 220 x 135 x 21 mm
Transmitter unit : 84 x 36 x 20 mm
Weight: 720 g
Power supply: lithium-ion rechargeable battery
Battery life: 6 h at 20 ° C
Controls up to 20 receiver units
Radio frequency: 869 MHz - Radio Power: < 0.5 W
Radio channel: 5 channels are available (factory)
Temperature: -10° C to + 50° C