

ARES

Remote Blasting Machine

Remote blasting machine ARES is designed to remotely explode electric detonators and check blasting line resistance.

Ares consists of one control/transmitter unit and up to four firing/receiver units. The control unit is used to send commands to the receiver units and monitor the status of each receiver unit.

The receivers are connected to the blasting lines and detonators. Receivers can check the blasting line resistance and explode electric detonators by remote commands from the control unit.

Additional repeater can be used to extend the communication range.

ARES Features and Benefits:

- Small and lightweight
- Simple to operate
- Encrypted dual frequency radio communication
- Integrated line continuity tester
- Firing and battery status indication for each receiver
- Sequential firing with 50 ms delay between receivers
- Different firing modes: All, Individually or selected groups, immediate or sequential firing
- Safety delay, selectable 5 or 1 minutes



Parameter	Value
Communication range	Line of sight: up to 5000 m Urban and forest: up to 1500 m Repeater on a tree 2 m above ground: doubles the range Repeater on a drone 50 m above ground: up to 20 km
Radio frequencies	868/915 MHz and 433 MHz ISM bands
Firing voltage	150 V
Maximum line resistance	80 Ω, for Class 1 detonators
Capacitor nominal value	100 μF
Arming (charging) time	8 – 15 s, depending on battery level
Line test current	1 mA
Power supply	3x 1.5V AA batteries, for each control, repeater and receiver unit
Battery life (with alkaline batteries)	Control and repeater unit: 100 hours Receiver unit: 72 hours
Protection level	IP67
Operating temperature	-20 to +50°C (with alkaline batteries) -30 to +60°C (with lithium batteries)
Weight	Control and repeater unit: 340 g (with batteries) Receiver unit: 390 g (with batteries)
Dimensions	Control and repeater unit: 147 x 88 x 33 mm (without antennas) Receiver unit: 170 x 88 x 33 mm (without antennas)