

Uni tronic™ Remote Firing System

Description

The Uni tronic™ Remote Firing System comprises a pair of Uni tronic™ Blast Boxes 310R operating in remote mode. All Uni tronic™ Blast Boxes 310R are equipped with radio modems and antennas for this purpose. Orica will help to arrange the radio licenses that are required in most countries. Within the European Union a license free band is used.



Uni tronic™ Blast Box 310R

Applications

Uni tronic™ Remote Firing System allows users to initiate Uni tronic™ and non-electric blasts conveniently and remotely from a chosen point-of-safety, well away from any safety hazard or blast effects.

Key Benefits

- Every Uni tronic™ Blast Box 310R is able to operate in Remote Firing mode or in wired standalone mode.
- Uni tronic™ Remote Firing minimizes production downtime required to fire blasts by eliminating the time and expense of running out (and perhaps retrieving) a blasting cable.
- Uni tronic™ Blast Box 310R has sufficient range for all surface mining applications.
- Multiple security features make Uni tronic™ Remote Firing virtually immune to interference, unauthorized use, or operator error.
- The control Blast Box displays a full detonator status report before firing (as usual), which allows the user to confirm that all is well with the blast at firing time.
- Communication integrity between the control and remote boxes can be checked at various locations before firing time to ensure a trouble-free blasting process.

Recommendations for Use

This Uni tronic™ Remote Firing equipment can only be used with Uni tronic™ Detonators 500. Never use Uni tronic™ control equipment with another manufacturer's electronic detonator. Follow the recommended procedures for testing the system for reliability of communications before actual use. Run all circuit wiring to Uni tronic™ equipment so as to minimize the chances of wire damage due to vehicles, people and falls of ground. Most Uni tronic™ blasting equipment, including Remote Firing hardware, has rechargeable batteries which should always be fully charged before use. Always use this and other blasting equipment according to its User Manual and within its specified technical limits. Return Uni tronic™ Remote Firing equipment for servicing at the recommended interval.

Technical Properties

Capacity – maximum blast size	500 Uni tronic™ Detonator 500
Maximum line-of-sight separation of control and remote boxes (m)	2.500 m
Operating temperature	-20 °C to +60 °C
Storage temperature	-25 °C to +65 °C
Effective operating window per battery charge	6 hours, reduced by excessive communication testing and cold temperatures
Uni tronic™ Blast Box 310R Environmental Ratings	Water and shock resistant (IP54 lid open, IP 67 lid closed)
Uni tronic™ Blast Box 310R external dimensions and weight	340 x 295 x 152 mm 5.2 kg
European Union: Radio Power and Frequency range	0.5 Watt 869,4125 – 869,6375 MHz

Product Classification

Authorised Name: Uni tronic™ Blast Box 310R
Approval Number: -

Storage and Handling

Uni tronic™ Remote Firing equipment should be transported and stored at -25 °C to +65 °C. It may be used in the temperature range -20 °C to +60 °C.

Avoid rough handling and keep the lid of both boxes closed whenever possible.

Safety

The Uni tronic™ Remote Firing system has excellent safety features. A programmable Dongle is required to convey the remote box serial number and one-time code to the control box at the point-of-safety. Until this Smart Dongle is docked in the control box, and the code is activated, the remote box cannot power up or program any detonators. These and other features give the Uni tronic™ Remote Firing system exceptional safety and security.

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