Technical Datasheet

Radio Controlled Blasting
Model BT-2 and RCE-2

Features

- The Blasting Transmitter (BT-2) and Radio Controller Exploder (RCE-2) are a handheld transmitter and a radio controlled exploder, both operating in the frequency range of 433MHz - 434.79MHz over the range of 1000m (line of sight).
- Each transmitter/exploder pair is uniquely coded by the manufacturer using KeeLoq encryption. This ensures security of the system and prevents false triggering in cases where more than one transmitter/exploder pair are being used in close proximity.

Operation

- Ensure initiation area is cleared of all personnel.
- Arm the RCE-2 by turning the key switch to ON.
- Connect blasting circuit to RCE-2.
- Using the BT-2, when at a point of safety, press the FIRE button while operating the POWER key switch to fire.
- The STATUS light will double flash when the battery is low.

Notice and Maintenance

- All service work must be performed by authorised AEC Electronics personnel only.
- The RCE-2 can be recharged using the supplied charging cable from any standard Mains outlet.

Specifications

Model BT-2

Operation Frequency	433MHz - 434.79MHz.

Operation - STATUS light	Flashes at 1s intervals in PRE-ARMED mode. Flashes at 0.2s intervals in ARMED mode. ON during FIRING mode. OFF in SHUT DOWN mode.

Battery	Type	Rechargeable
	Capacity	Over 450 firings. Recharge battery when STATUS light double flashes.

Model RCE-2

Firing Capacity	Up to 145 standard instantaneous electric detonators/ initiators in series (firing circuit resistance<275Ω).

Sequence of Operation	PRE-ARMED: firing cannot take place for 5 minutes after POWER key is turned ON. ARMED:15 minute interval during which the RCE-2 can be remotely fired. FIRING: about 4s duration interval after which RCE-2 fires. SHUT DOWN: indefinite interval after FIRING or relapse of ARMED interval.

Operation - STATUS light	Flashes at 1s intervals in PRE-ARMED mode. Flashes at 0.2s intervals in ARMED mode. ON during FIRING mode. OFF in SHUT DOWN mode.

Mechanical Data

Unit Mass	BT-2	0.27kg.
	RCE-2	0.5kg.
	Units in Case	1.0kg.

Unit Dimensions	BT-2	Without antenna: 102mm x 72mm x 34mm. Antenna length: 197mm.
	RCE-2	Without antenna: 120mm x 82mm x 45mm. Antenna length: 197mm.
	Case	280mm x 235mm x 85mm.

Safety

Encryption	KeeLoq code encryption technology.

Control	BT-2 and RCE-2 only operate in coded pairs. Ensure that the serial numbers correspond between units.

Temperature	-5°C to 45°C.

Warning and Disclaimer

The information and recommendations in this document are provided for reference purposes only and should not be construed as advice to cover every application of the product or variation of conditions under which the product may be used.

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