



# RB1673 SMARTBLAST<sup>®</sup>

- Two-Way Communications
- Safe, Reliable and Cost Efficient
- Electric and Shock Tube Detonation
- Automatic Disarm with Timer

## FEATURES

The smartblast® Controller Unit is capable of commanding up to 64 Remotes that can be either electric or non-electric, in 8 Remote groups.

The history event log keeps a record of information such as unit state, post blast motion detect value, firing voltage level, battery level and the date and time the event was logged. With the GPS included, each event will also have the longitude and latitude of where the unit was when the event was recorded.

Each Remote unit has a sensor that measures the seismic motion that may be expected when a successful blast detonation has occurred. The Controller unit then reports that a post-fire motion was detected, useful in underground operations when the successful initiation of a blast cannot be easily determined.

The automatic-disarming function ensures that the unit returns to a safe state in the event of a loss of communications, after a time out period.

The Sequential Fire feature allows the user to space the firings of each Remote unit so that they do not fire at the same time, 0-2 seconds between the firing of each Remote. This feature is particularly useful when firing multiple blocks where a delay is needed between each block.

The LCD display provides information that is supplemental to the basic operation of the smartblast®. Whenever a switch is pressed, the LCD display's backlighting function will be enabled. After 30 seconds of inactivity, the backlighting will automatically turn off to save battery power. The LCD is rated for -20 to 70°C (-4 to 158°F).

The RB1673 has increased firing capacity. A minimum of 350V, allowing for approximately 75 electric caps in series, or a maximum circuit resistance of 150Ω.

## TECHNICAL DATA

PERFORMANCE SPECIFICATIONS	
Carrier Frequency	150-174 MHz
Frequency Stability	±1.5 ppm
Modulation	11K2F3D (FSK)
Transmit Power	1 - 5 Watts; 1 Watt Max. for underground
Operating Voltage	7.5 Vdc
Transmission Range	1 - 5 miles*
Receiver Sensitivity	12 dB SINAD:<0.45uV
Fire Capacity (Electric)	150 ohms; 350 volts (1.2 joules)
Fire Output (Non-Electric)	2.5 kV (0.625 joules)

MECHANICAL DATA	
Dimensions (W x D x H)	255 x 305 x 115 mm (10 x 12 x 4.5 in)
Weight (nominal)	3.2 kg (7.0 lbs)
Construction	Waterproof Pelican 1200

ELECTRICAL DATA	
Battery Pack	Rechargeable NiMH
Battery Life	Standby 10-14 hrs Complete recharge 4 hrs
Current Consumption	Standby 135 mA; Transmitting 1 to 2.5 A
Operating Temperature	-30 to +60° C (-22 to +140° F)
Optimum Battery Range	0 to 50° C

\* Line-of-sight. Typical transmission range based on power level, frequency, terrain, and local interference.

Technical data are limit values.

If the product is integrated into systems or operated in combination with other devices, its permissible operating values can deviate from these limit values. Subject to technical modifications without prior notice.

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