



# RB1675 SMARTBLAST<sup>®</sup>

- Factory configured for either LTE-M or LTE Cat 1 networks
- Safe, Reliable and Cost Efficient
- Electric and Shock Tube Detonation
- Automatic Disarm with Timer

## FEATURES

The smartblast® RB1675 series introduces LTE communication to Becker Mining Systems proven smartblast® range of blasting units. The RB1675 is available in LTE Cat-M or LTE Cat 1 variants.

The RB1675 Controller Unit is capable of commanding up to 64 Remotes that can be either electric or non-electric, in 8 Remote groups.

The historical 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.

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. The Controller waits for confirmation that one Remote has fired before firing the next 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 RB1675. The LCD is rated for -20 to 70°C (-4 to 158°F).

The RB1675 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 |   |
|----------------------------|---|
| LTE-M Bands                | 1, 3, 5, 8, 18, 19, 20, 25, 26, 28, 39                          |
| LTE-Cat 1 Bands            | 1, 2, 3, 4, 5, 7, 8, 12, 13, 18, 19, 20, 25, 26, 28, 38, 39, 40 |
| LTE-M Data Rates           | Max 350 Kbps up/down  |
| LTE Cat 1 Data Rates       | Max 10 Mbps down<br>Max 5 Mbps up                               |
| Operating Voltage          | 7.5 Vdc   |
| Transmission Range         | Subject to LTE coverage   |
| 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<br>Complete recharge 4 hrs |
| Current Consumption   | Standby 135 mA;<br>Transmitting 1 to 2.5 A   |
| Operating Temperature | -30 to +60° C (-22 to +140° F)               |
| Optimum Battery Range | 0 to 50° C                                   |

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.

Rev. A

**becker**  
**VARIS** SMART MINING SOLUTIONS

Tel +1 705 674 8111  
Fax +1 705 674 7834

Becker Varis  
122 Dell Street, Unit A  
Sudbury, Ontario  
Canada, P3C 2Y1

info@ca.becker-mining.com  
www.becker-mining.com