

PULSAR MEASURING SYSTEMS LTD

3 Forge Close, The Street, Chipperfield, Herts, WD4 9DL England

Tel: +44(0)1923 261412 Fax: +44(0)1923 261299

E-mail: mikewer@pulsarmeasuring.co.uk

BLASTHOLE PROBE



PULSAR BLASTHOLE PROBE

For surveying the inclination and azimuth of deviating, wet blastholes.

PULSAR BLASTHOLE PROBE is a fully electronic tool which produces, accurate 3 dimensional maps of blastholes and the depth at which water is present.

FEATURES

Portable, light weight, winch operated system.

NO RODS REQUIRED.

- Easy to use – depth of hole electronically measured every 0.1m and automatically recorded in Datamat 5.
- Depth of hole continuously displayed in Datamat 5.
- Compatible for use with Blast Designer 32, Quarry.4 &
- Winprof rockface surveying software.
- Every measurement displays inclination angle, heading, depth down hole, presence of water and battery status of Probe prior to recording in Datamat 5.
- Supplied with standalone HOLEVIEW software enabling graphical and numeric analysis of individual surveyed holes



[Winch with Datamat 5](#)

OPERATING METHOD

Lower probe to bottom of the hole, then retrieve taking measurements at pre-selected intervals (2, 3, 5m etc.) depth intervals. A typical 15m hole can be surveyed in less than 2 minutes.

PULSAR MEASURING SYSTEMS LTD

3 Forge Close, The Street, Chipperfield, Herts, WD4 9DL
Tel: +44(0)1923 261412 Fax: +44(0) 01923 261299
www.pulsarmeasuring.co.uk

PULSAR BLASTHOLE PROBE

TECHNICAL DATA

Tool Dimensions 800mm long x 57 mm diameter.

Case Material Type 304 Austenitic Stainless steel. Maximum immersion depth 1000m.

Tool Weight 4.5Kg.

Inclination Sensor Dual axis, digital, self compensating magnetometer with separate dedicated microprocessor. Tilt operating range ± 40 degrees.

Accuracy ± 0.25 degree inclination ± 1.0 degree azimuth.

Main microprocessor 16 bit microcontroller.

Calibration/Configuration All sensors can be calibrated without opening the case.

Power Supply Internal, sealed Ni Cd rechargeable batteries giving up to 14 hours continuous use between charging. Batteries are charged without opening case. Battery strength indicator displayed in logger.

Suspension Cable 35m length of 7mm diameter polyurethane jacketed sub-marine cable. This cable is completely non kink and has extremely high abrasion resistance.

Connector Wet pluggable sub marine type moulded to cable

Deployment winch Hand operated type with heavy duty slip rings, brake and ratchet. Weight 7.5kg complete with 35m cable.

Data Output/input Full RS232 serial communications at 4800 baud.

OVER 75 SYSTEMS CURRENTLY IN USE

When used with the Datamat 5, every measurement displays the following data :-

- ◆ Depth down the hole
- ◆ Inclination angle
- ◆ Heading
- ◆ Whether the hole is wet or dry
- ◆
- ◆ Battery status of Probe