

REFLEX NORTH FINDER APS[™]

Unique GPS based compass producing True North azimuth, GPS position and degree of inclination.



The REFLEX NORTH FINDER APS[™] (Azimuth Pointing System) is not affected by local magnetic interference. It allows Drilling Operators to align drill rigs and survey instruments and more accurately measure drill hole collars. Accurate collar azimuth is vital and can have the greatest impact on the final end-of-hole coordinates. Geologists are able to use the REFLEX NORTH FINDER APS[™] to pick up previous collars and accurately record starting dip and azimuth coordinates.

The REFLEX NORTH FINDER APS[™] features UTM and latitude/longitude coordinates, sub-metre GPS position accuracy, GPS Integrity Parameter for more accurate azimuth and a long life battery providing more than 6 hours run time. Collar and directional data from the REFLEX NORTH FINDER APS[™] is transferred via Bluetooth communication to the PDA, and can be downloaded from the PDA to PC (optional).



Accurate

The REFLEX NORTH FINDER APS[™] is accurate to 0.5° of True North Azimuth.

Where GPS integrity is excellent, the accuracy can be less than 0.2°. The unit is built with three accelerometers for exceptional tilt accuracy. The REFLEX NORTH FINDER APS reduces the risks and associated costs of human error in recording drill collar measurements.



Cost-Saving

When using the REFLEX NORTH FINDER APS[™], correct drill collar measurements can be obtained easily and accurately.

Land based surveys are not required which saves significant costs for the project.



Easy To Use

The REFLEX NORTH FINDER APS[™] does not require specialized survey teams to achieve accurate results.

Field staff are able to competently operate the system, with no specialized training required. It is also easy to set up and can be mounted on a pre-positioned rig, tripod or other object with no overhead obstructions to avoid signal interference.

AZIMUTH ACCURACY

< 0.2° with excellent GPS integrity.
> 1.0° with poor GPS integrity.
(GPS integrity is automatically calculated by the APS in real-time and displayed on the LCD) 35mm

TILT ACCURACY

± 0.2°

GPS COORDINATE ACCURACY

< 60cm (2ft) with SBAS correction (WAAS, EGNOS, MSAS)
< 2.5m (8ft) autonomous

DIMENSIONS

10cm high x 13cm wide x 66cm long (4" x 5" x 26")

WEIGHT

1.6kg (3.5lbs) – no attached options

TEMPERATURE RANGE

-30° to 60°C (-22° to 140°F)

SEALING

NEMA 4 (IP 65)

NORTH FINDER MOUNTING PLATE

¼" - 20 tripod threads (2) and 5/8" - 11 tribrach thread

INTERNAL BATTERY

12 V DC rechargeable lithium ion (~ 6.5hrs operation).
1.5hrs max charge time with portable charger

COMMUNICATIONS

Serial output with cable for logging installation or performance data.
Bluetooth Class 1.
User selectable National Marine Electronic Association (NMEA) data formats for each mode.
Laser input port (APS automatically goes into laser offset mode when the laser is triggered)

OPTIONS

Rig alignment attachment.
Tripod.
Tripod geared head with azimuth, tilt and roll adjustments.
Hard sided shipping case.
Laser range finder kit (LTITruPulse laser rangefinder) and mounting bracket.
1.5 - 4 X optical sighting scope.
Archer PDA handheld for bluetooth readout and transfer to PC.

Further Information

For more information please go to our website www.reflexnow.com or contact your nearest REFLEX office.

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