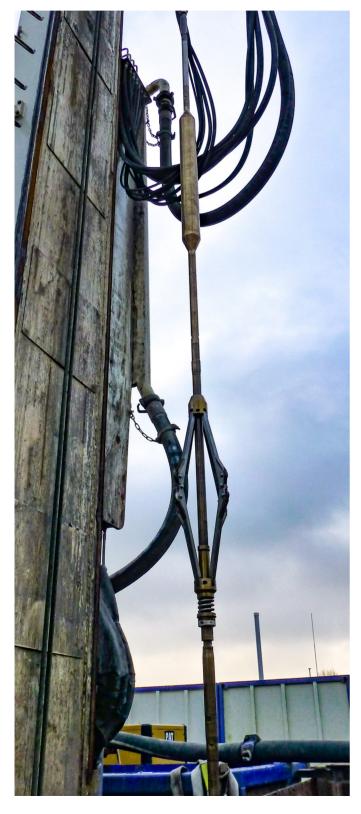
# MICON NSG North seeking Gyro



MICON DRILLING

## MICON-NSG



#### **Advantages and features**

- Fully automatic True North Seeking system through measuring the real earth rotation
- Independent from any magnetic influences, no magnetic declination
- High accuracy of <0,5° in azimuth \* and inclination & GTF of <0,05°</p>
- The accuracy is replicating through a high performance fiber optic gyroscope and MEMS accelerometers
- ◇ Very low drift of <0,3° per hour</p>
- No moving parts inside the system
- No restrictions on the measuring range in inclination (0° – 360°)
- Fully automatic initialization (alignment) within less than 2 minutes \*\*
- Initialization can be done at any angle and also downhole or underground \*\*\*
- Through a realignment directly at any measuring point the drift can be completely eliminated \*\*\*
- Simple and self-explaining display and calculation software
  - \* depending on latitude
  - \*\* Tool needs to be steady (without any movement)
  - \*\*\* not while in logging mode

#### **Technical Specification Sheet**

| North seeking Gyro               |  |
|----------------------------------|--|
| Dimensions                       |  |
| Pressure case OD                 | 75 mm  |
| Length                           | 1100 mm  |
| Weight                           | 15 kg  |
| Connection                       | Eastman Pin x Pin  |
| Accuracy                         |  |
| Inclination                      | +/- 0.2°   |
| Toolface                         | +/- 0.2°   |
| Azimuth (true north)             | +/- 0.2° depending on latitude ranges: near 50th latitude +/-0.3° near 60th latitude +/-0.4° near 70th latitude +/-0.6° near 80th latitude +/-1° no inclination range limitation |
| North seeking alignment time     | 2 minutes  |
| Sensors and Electronics Assembly |  |
| Sensors                          | 3 axis accelerometer 3 axis fiber optic gyroscope Temperature  |
| Power source                     | Lithium Battery (rechargeable)   |
| Shot interval                    | 1 second   |
| Operating time                   | 5 hours (Battery runtime 6 hours)  |
| Enviromental                     |  |
| Temperature Range                | from -20°C up to +60°C   |
| Pressure Resistance              | 120 bar  |
| Vibration longitunal             | 6 Grms, 10 to 500 Hz   |
| Vibration lateral                | 4 Grms, 10 to 500 Hz   |
| Shock (operational)              | 20 g half sine pulse for 6 ms  |





### MICON DRILLING

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