



Vertical Logging and Survey Tool

This Tool is Different From What's on the Market Today

Tolteq's TruVertical is not your ordinary survey-on-connect (SOC) tool, it also provides logging, Tool Tracker™ capability and is expandable for gamma as needed.

TruVertical is designed to operate as a man-less system and uses mud pulse technology with proven reliability. Your intent is to stay vertical—TruVertical tracks two important variables to help you do just that: inclination and azimuth.

TruVertical Features

- **Reliable**-Built using Tolteq's proven tools, meaning you have years of proven reliability and experience behind you.
- **Extended Survey**-Giving you access to valuable information: inclination, azimuth, depth, battery voltage, dip angle, gravity, magnetic field, temperature, shock and vibration.
- **Advanced**-Integrates with Tool Tracker™ to access logged tool history and environmental data.
- **Simple**-No rig site setup required.
- **Expandable**-Add gamma for additional visibility as you close in on the kick off point.
- **Rugged**-Designed to handle the shock and vibration of today's downhole environments.
- **Continuous Improvement**-Available through future firmware updates.



Transforming downhole data into downhole intelligence

1205 BMC Drive
Cedar Park, Texas 78613

Tel: 512.331.4241
www.tolteq.com





Vertical Logging and Survey Tool

The Information
You Need
at a Glance



Specifications

PHYSICAL

- Collar Length (includes non-mag spacing)..... 23' (7.01m)
- Drill collar diameter (OD).....6.5" (0.165m)
8" (0.203m)
- Flow Rate..... 300-800 GPM

ENVIRONMENTAL

- Operating temperature.....0°C to 175°C
32°F to 347°F
- Survival temperature.....-40°C to 185°C
-40°F to 365°F
- Vibration, random.....20 g RMS, 15-500 Hz
- Shock1000 g, 0.5 mS, half-sine
- Inclination Range.....0-30°

INSTRUMENT ACCURACY

- Inclination
 - Absolute..... ±0.1°
 - Spread ±0.1°
- Azimuth (magnetic dip angle at <70°)
 - @ 5° inclination: absolute ±1.2°
 - @ 5° inclination: spread..... ±1.0°
 - @ 10° inclination: absolute ±0.75°
 - @ 10° inclination: spread ±1.0°
- Total g field accuracy, absolute..... ±3.0 mg
- Total H field accuracy, absolute ±3.0 mGauss
- Battery Life
 - Stand by Mode..... 77 Days
 - Down Hole 31.5 Days

Gamma Specifications

ELECTRICAL

- Operating voltage range 20-30 VDC
- Maximum input voltage 33 VDC
- Operating current 10-25 mA
- Output pulse Neg(+5V to 0V)
- Accuracy ±5% at 175°C

MECHANICAL (MODULE)

- Diameter (OD) 1.875" (0.048 m)
- Length (w/caps) 51.57" (1.31 m)

ENVIRONMENTAL

- Operating temperature range..... 0°C to 175°C
32°F to 347°F
- Survival temperature-40°C to 185°C
-40°F to 365°F
- Maximum heat/cool range3°C/Minute
- Vibration (3-axis) oper.45 G RMS, 15-500 Hz
- Shock (z-axis)..... 1000 G, 0.5 mS
- Shock (y-axis)..... 1000 G, 0.5 mS
- Down Hole..... 31.5 Days

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