

# The Electronic Level



The Electronic Level measures elevation differences without visual contact. The instrument consists of two pressure transducers connected by a flexible tube filled with liquid, and a digital readout meter. A Sensor averages the temperature inside the tube and its output compensates for the density variations of the fluid so as to allow a high precision reading under any outside temperature. All that is needed to measure a difference in elevation is to put the ends of the tube on them and to press a button: the digital reading appears instantly.

## Fields of application

- Seismic surveys
- Gravity surveys
- Typographic surveys and profiles, especially in wooded and/or hilly areas
- Geological and drill hole surveys, etc.

## Advantages

- No visual contact needed between points to be measured
- One reading measures up to a  $\pm 10$  meter or 30 foot difference in elevation *15-meter*
- Saves on line cutting and reduces ecological damage
- Is at least twice as fast as an optical level in open areas
- Many times faster than an optical level in wooded and/or hilly areas
- Can save its purchase price in a few weeks of operation

## Specifications

Measurement range:

Numerical readout:

Reading resolution:

Absolute accuracy between 2 stations:

Typical closure error (sigma) for 1 Km traverses (3/4 mile)

Calibration stability:

(temperature compensation)

Size:

Weight: Instrument

Tube

Length of tube:

Tested temperature range:

Battery supply:

*15 meters*  
 $\pm 10$  meters (30 feet)

4 figures (L.C.D. and L.E.D.)

1 cm (0.01 foot)

$\pm 3$  cm (0.1 foot)

*6 cm*  
 $< 15$  cm (6 in.)

$< 1\%$  of the reading between

+ 45°C and - 45°C

(104°F to - 49°F)

10 x 10 x 20 cm (4 x 4 x 8 in.)

2.2 kg (5 lbs.)

2.0 kg (4.5 lbs.) / 30 meters (100 ft.)

7.5 m to 60 m (25 to 200 feet)

- 20°C to 45°C (0°F to 120°F)\*

Rechargeable 6V Gell Cell Battery

8-hour battery life\*

An external battery can also be used

## Warranty

Instrumentation GDD Inc. offers a one year guarantee on the readout meter and three months on the tube.

\* Down to - 45°C (- 49°F) with the winter case (optional)

