

In-Situ Level TROLL® 700

Introducing the NEW Level TROLL® 700... The next breakthrough for professional water level monitoring applications including single or multi-step aquifer testing, precision river gaging, tidal influence studies, wave characterization, geothermal research, storm-event monitoring and more!

The Level TROLL® 700 features a rugged, all-titanium construction that is TIG welded to eliminate o-ring seals, Twist-Lock connectors, an ultra-low power system that eliminates the need to change batteries, and it is only 18.3mm (0.72 in) in diameter making it perfect for 1-inch wells or observation tubing. The 700 series of the Level TROLL® offers new logging modes such as linear, linear average, event, true logarithmic, step linear, and fast linear for complete customization. Additional benefits of the Level TROLL® 700 include “Pause” and “Re-Start” logging features, a larger memory (350,000+ data points), 0.25 sec sampling (4 samples per second), ability to store and manage up to 50 log files, user notes, advanced compensation settings, and more.

Temperature Ranges

Operational: -20-80° C Storage: -40-80° C Calibrated: -5-50° C

Diameter

0.72 in (1.83 cm)

Length

8.5 in (21.6 cm)



Weight

0.43 lb (197 g)

Materials

Titanium body; Delrin nose cone

Memory Data records 2 Data logs

4.0 MB 260,000 50

Fastest logging & Modbus rate: 4 per second

Fastest SDI-12 & 4-20 mA output rate: 1 per second

Log types

Linear, Fast Linear, Linear Average, Event, Step Linear, True Logarithmic

Real-time clock

Accurate to 1 second/24-hr period

Range

30 psig: 69 ft/21 m 100 psig: 231 ft/70 m

Burst pressure

Maximum 2x range; burst 3x range

Accuracy @ 15°C

±0.05% FS

Accuracy (FS)

±0.1% FS3

In-Situ Level TROLL[®] 700

Burst pressure

Maximum 2x range; burst 3x range

Resolution

±0.005% FS or better

Units of measure

Pressure: psi, kPa, bar, mbar, mmHg, inHg, cmH₂O,
inH₂O Level: in, ft, mm, cm, m

Temperature Sensor

Silicon

Range

Calibrated: 23-122° F (-5-50° C)

Accuracy & Resolution

±0.1° C; 0.01° C or better

Applications

- Multi-step aquifer testing
- Slug tests
- Pumping tests
- Tidal influence & wave characterization
- River, lake, stream gaging
- Landslide & flood prevention
- Stormwater monitoring
- Flow measurements
- Research, studies
- Marine buoys
- Water pumping management
- Estuaries and coastal monitoring