

LevelSCOUT



What is LevelSCOUT?

LevelSCOUT is a water level logger that represents the best of recognised technology, updated and improved to deliver an absolute level logger which has many advantages over other instruments.

Sensor

- Measures level, temperature and time
- Thermally compensated for sites where water temperatures vary
- $\pm 0.05\%$ full scale accuracy
- Low power with up to 5 year battery life
- Replaceable battery
- 316 stainless steel, fluoropolymer and acetal construction with a titanium option available
- Modbus® RTU protocol for great flexibility when linking to telemetry and other sensors.

Datalogger

- Non-volatile memory so data is not lost in the event of a power failure
- A pause logging feature to allow you to temporarily stop the logger while repositioning or transporting
- A delayed start feature so you can state a specific future start time to make it easier to set several sensors to start at the same time.

Cabling & Networking

- Available as an absolute logger or with a user attachable communication cable
- Wireless connectivity capability
- RS485 network to allow several sensors to be networked together
- Field-serviceable connectors to make it easy to remove the connector, route cable through well seals, walls or conduit and then replace connector.

Confidence–Technology–Choice

When choosing the LevelSCOUT the words: Confidence, Technology & Choice became synonymous with our decision and the very reason for adopting this level logger.

Confidence: In the product, in the people behind the product - staff in the manufacturing, quality control and assurance, marketing and administration. More importantly we looked at the philosophy of a business to make sure that each step is documented, ethically sound and follows our core values.

Technology: Any technology used in our products must be current and tested following good quality assurance and quality control procedures. Robustness, fit for purpose, and reliability will feature highly, as does track record and provenance.

Choice: We live in an age where there is a buffet of choices. The trick is to find the smart choice but the choice of yesterday might not be that of today or tomorrow so there needs to be a continual evaluation of the choices we make. At Van Walt we believe strongly that choice, in the way we do things, the products we support, the staff we employ, is fundamental to the success of our business and the success in our interaction with our customers. A programme of continual development is in place so we can be more certain that we use the best decision criteria to make smarter choices for our customers.



Software

LevelSCOUT operates with Aqua4Plus software: easy-to-use, Windows-based software for communicating with and controlling a number of loggers and allowing users to:

- View logger status
- Monitor real-time data
- Create flexible and powerful test sequences.

Aqua4Plus Lite is available free of charge either by download or by USB memory stick and it contains all the major functionality required to:

- Access several LevelSCOUTs data
- Display data in tabular or graphic format
- Export information to common spreadsheets and databases
- View logger status
- Monitor real-time data
- Create flexible and powerful test sequences
- Barometric Compensation Utility.

Aqua4Plus Lite is a simplified version of Aqua4Plus which provides more in-depth logger control and is suitable for a wide variety of loggers.

Pedigree

Van Walt's LevelSCOUT is from the stable of the Seattle based manufacturer Seametrics.

Seametrics is known for their superb Flow Meter technology. In 2014 they purchased INW (Instrumentation North West) and retained some of their most experienced and innovative staff. INW is a world leader in producing accurate and resilient loggers for the measurement of water level and other water quality parameters.

Van Walt has been supplying vented INW sensors for some years, primarily for projects where the highest accuracy is required, like flood warning alerts and alarms. Now we are delighted to offer a absolute water level logger from this respected and pioneering team.

LevelSCOUT - Van Walt's Level Logger of Choice



Benefits

LevelSCOUT is a non-vented or absolute water level logger. This leading-edge instrument for measuring and recording groundwater level and temperature has many benefits over alternative loggers:

- Latest technology that incorporates and improves on recognised components
- More accurate than the leading competitors
- Stores 100,000 records
- A non-volatile memory that eliminates data loss in the event of a power failure in the logger
- Excellent value for money
- Accurate enough for surface as well as groundwater monitoring



- Heavier than comparable instruments so sinks quickly
- Replaceable batteries that typically lasts up to 5 years
- Durable, rugged and robust with little or no maintenance – a very field sturdy device
- Easy to deploy
- Three year warranty from date of deployment
- Easy to use
- Easy to connect with industry standard protocols (Modbus)
- Available in cabled or wireless versions
- Fully backed by the Van Walt technical team.

LevelSCOUT - Van Walt's Level Logger of Choice

FAQs

What ranges of LevelSCOUT are available?

psia: 30; 50; 100 & 300 this equates approximately to:
Ranges: 10; 25; 60 & 200m

What diameter is the LevelSCOUT?

22 mm

What is the accuracy of the LevelSCOUT?

Officially 0.05% full scale so on a 10m unit that is 5mm. This is both the theoretical but, more importantly, a realistic value. We strongly believe this level of accuracy is not overstated and somewhat contrary to some of the other level loggers available. In short the LevelSCOUT is incredibly accurate for an absolute logger and, we believe therefore that in many cases it is also accurate enough to be used in Surface Water applications.

How long does the battery last?

The battery lasts approximately 5 years on a 'standard' sampling rate; one reading every 15 minutes. The battery is replaceable.

What is the LevelSCOUT made from?

316 Stainless Steel or Titanium

What's the maximum number of measurements I can take with the LevelSCOUT?

100,000

What is the minimum sample interval with the LevelSCOUT?

One second, other INW loggers are available for sampling times down to one eighth of a second/0.125

How long will it take to receive my loggers if I place my order today?

Most popular sizes are kept in stock for next day availability. For less common sizes within 2 weeks.

Can I use a LevelSCOUT logger for pump testing?

Yes, within the specifications of minimal sampling rates of 1 per second. If a higher frequency is required then we can supply a logger from the INW range which has the minimum frequency of 1 reading each eighth of a second. From our experience for more than 80% of pump test the one second interval suffices.

Can I suspend a LevelSCOUT on dyneema?

Yes

Can I use any Baro logger to compensate my data?

Yes but the compensation will have to be done manually in Excel.

What software do I use with the LevelSCOUT?

There are two software suites. Normally, for day-to-day use Aqua4Plus Lite is commended for its ease of use. When more features are required such as programming for Modbus applications then the full version Aqua4Plus is recommended.

Is there a conductivity version of the LevelSCOUT?

Yes, we call it the CT2X, available in Stainless Steel or Titanium. And available as a vented or absolute logger.

Do I need training on the LevelSCOUT software?

The software is very intuitive and easy to use but as ever we can provide training. Training by video-conference and in-person. Usually this would not take longer than 10 minutes.

What is the failure rate of the LevelSCOUT?

In test it has shown to be fantastically reliable and robust.

What's the warranty on the LevelSCOUT?

3 year warranty

Is the LevelSCOUT CE rated?

Yes

How much does the software cost?

Both versions are available free of charge either by download or by USB memory stick.

What are the readout options for the LevelSCOUT?

- Communication Cable to Laptop
- By direct readout cable at the well head
- Telemetry

Can I connect a LevelSCOUT logger to a telemetry system?

Yes

Do I still need a Baro with the LevelSCOUT?

Yes

Is there a level logger for brackish water?

Yes, please specify Titanium

How much does the LevelSCOUT weigh?

Approximately 160g



Applications

- ◆◆ Geohydrological research
- ◆◆ Fresh water, salt water and industrial water level monitoring
- ◆◆ Long term water level monitoring
- ◆◆ Groundwater monitoring projects
- ◆◆ Tidal studies
- ◆◆ Groundwater monitoring network automation
- ◆◆ Groundwater site assessments
- ◆◆ Drilling, well development, hydraulic testing
- ◆◆ Watershed, drainage basin and recharge areas
- ◆◆ Stream gauging, lake and reservoirs levels
- ◆◆ Estuary and wetlands monitoring
- ◆◆ Flood and storm surge monitoring
- ◆◆ Environmental monitoring
- ◆◆ Surface water discharge measurement
- ◆◆ Aquifer level monitoring
- ◆◆ Aquifer storage and recovery
- ◆◆ Saltwater intrusion projects
- ◆◆ Leachate monitoring at landfill sites
- ◆◆ Monitoring stored brines and reclaimed waste water
- ◆◆ Dewatering monitoring (mining and construction)

and more ...

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