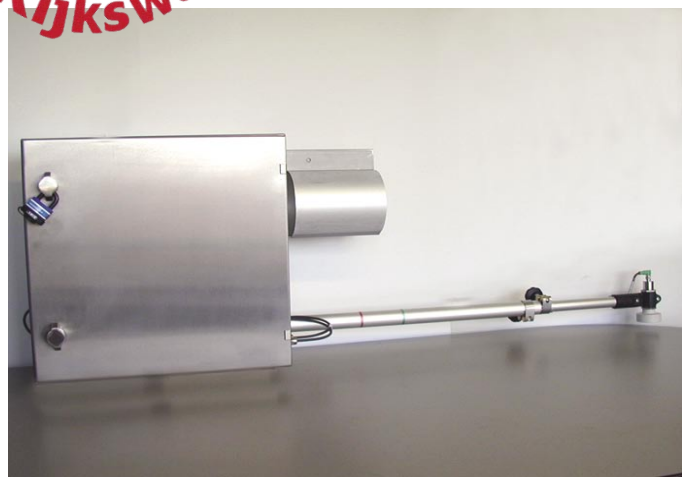


Test Winner  
RIZA  
2005  
Rijkswaterstaat

# Mobile LOG\_aLevel<sup>®</sup>

## Calibration Free Remote Sensing of Water Level and Waves



The **Mobile LOG\_aLevel<sup>®</sup>** is a cost-effective, complete, remote sensing, stand-alone water level gauge on the basis of ultrasonic sensors. The system works automatically and is independent of any external connections. High performance ultrasonic sensors guarantee reliable, fast and precise measurements of all kinds of water level and its dynamics.

The **Mobile LOG\_aLevel<sup>®</sup>** is designed to provide easy accurate water levels and wave data for a wide range of applications.

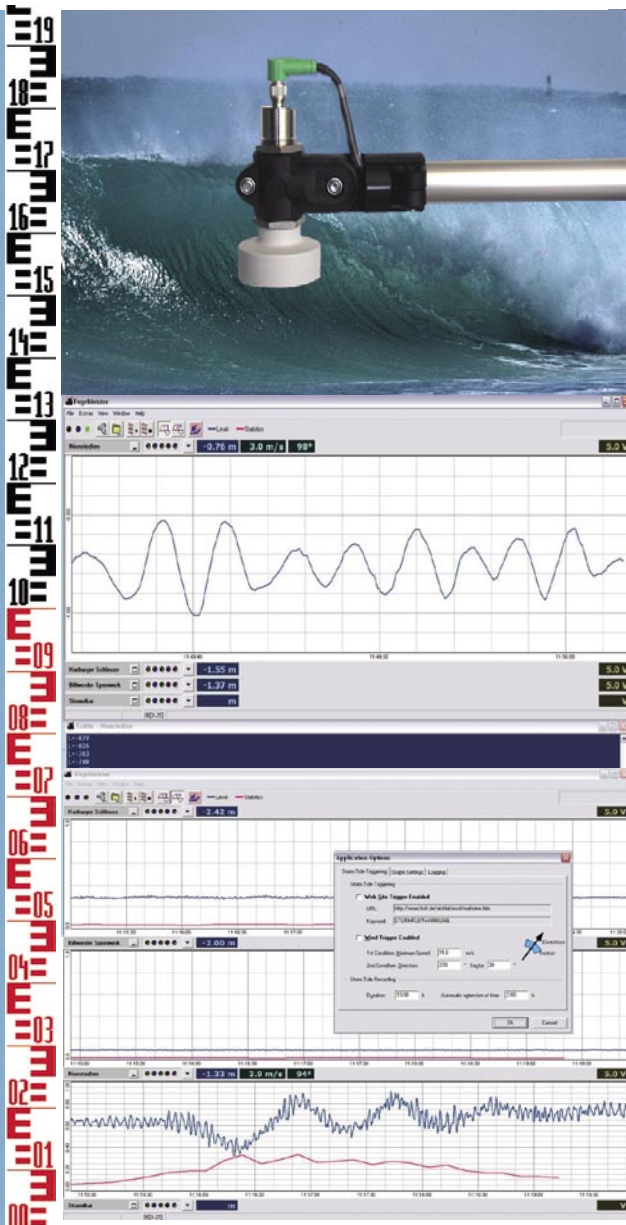
### Advantages:

- Maintenance-Free
- Quick assembly and initiation
- Precise, robust and economical
- Always reliable under extreme conditions: flood, ice, storms, debris, etc.
- Calibration Free due to Outstanding Sound Velocity Compensation
- High Resolution Wave Measurement possible
- Remote data transmission, control and alerting
- Network integrity and multi event triggering
- World-wide proved and tested
- Easy to use Windows-Software

### Applications:

- Mobile working level
- Tide data measuring for the correction of hydrographic surveys or dredging operations
- Wave monitoring and analysis
- Flood and high water prediction
- Event alerting system
- Water reservoir management
- Environmental monitoring

**Mobile LOG\_aLevel<sup>®</sup>**



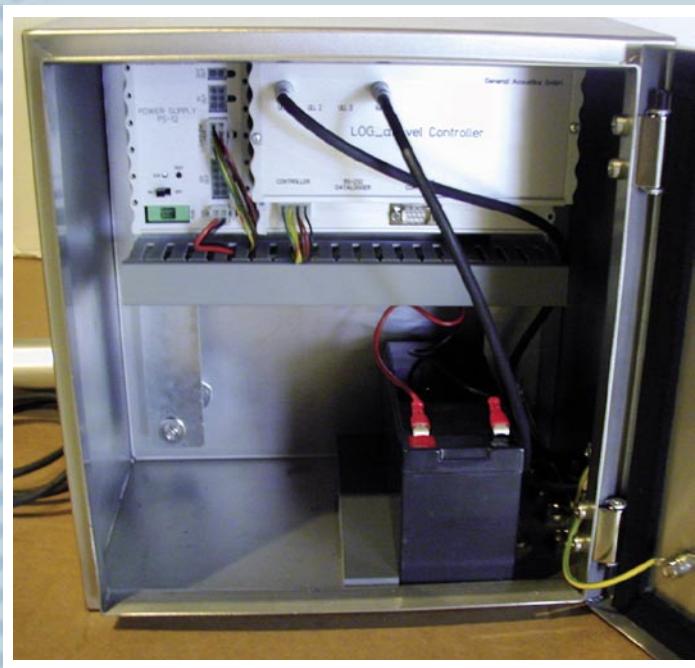
# Mobile LOG\_aLevel<sup>®</sup>



Calibration Free Remote Sensing of Water Level and Waves

## Standard Equipment:

- Stainless steel housing, IP 66, lockable, size: 300x300x200 mm (or 500x500x200 mm)
- Ultrasound sensor ULL6080; IP 68, measuring range 6 m (higher ranges see options below)
- Reference sensor for sound velocity determination to guarantee a precise distance measurement
- Controller module for signal processing and sensor control/data acquisition incl. RTC
- Digital data transfer via interface RS 232
- Power supply 12 V DC
- AGM-Battery 12 V; 7,5 Ah at 20 h discharge (no dangerous goods after FAA and IATA)
- LOG\_aLevel<sup>®</sup> Software for online-analysis of measuring networks, system set-up, managing and storing of the data on a Windows PC



**Above:** Inside the Standard Mobile LOG\_aLevel<sup>®</sup>: Power Supply, Controller and 12 V AGM-Battery and Data output via RS232.

## Specifications:

Measuring range:	6 m (up to 10 m optional)
Resolution:	1 mm
Field accuracy:	1 cm
Sample rate:	up to 5 Hz (dep. on setting)
Frequency:	80 kHz
Working temp:	-20 °C up to +70 °C
Storage temp:	-40 °C up to +80 °C

## Some References:



Representative of General Acoustics:

## Options:

- Data Logger inclusive 1 GB Industrial Grade CF Card in PCMCIA (up to 2 GB available)
- Radio (licence free or licenced)
- GSM/GPRS Modem
- RS 485
- Ethernet Module
- 230 V/110 V Power Supply Module
- Digital Display for direct level reading
- Ultrasound Sensors for higher ranges

**Below:** Data transmission to PCMCIA-Data Logger or via Radio Module



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