

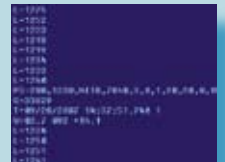
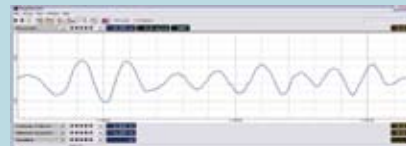
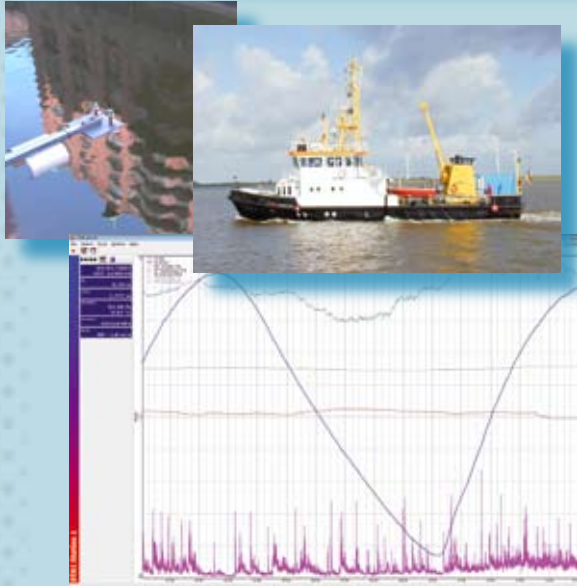
LOG_aLevel Mobile

Make Water Level and Wave Measurements a Breeze



LOG_aLevel Mobile is a easy to carry, plug and play and stand-alone remote sensing water level gauge. Based on the well-known and proven LOG_aLevel system, this unit is also calibration-free, accurate, durable and very cost-effective. On the basis of advanced ultrasonic technology and the ability to resolve each wave, it measures reliably and precisely water level, at all kinds of water surface dynamics.

Easy to deploy thanks to its compact sensors and extendable sensor arm, needs no maintenance, works automatically and is independent of any external connections. In addition, the LOG_aLevel Mobile system is designed in a modular manner to best meet requirements of various applications and the specific requirements for the customer, as for example an array of commmunication options as well power supply options, including solar power.



Applications:

- Temporary Level Gauge to Support Dredging, Surveying and Construction Works
- Harbor and Terminal Management
- Hydrology and Environmental Monitoring
- Storm Tide, Flood and Tsunami Measuring
- Spectral Wave Energy Analysis for Optimal Survey Quality
- Water Reservoir Management
- Wave Monitoring and Analysis
- Ship Induced Waves
- Load Determination for Hydraulic Engineering
- Torrent Monitoring
- Local Event Alerting e.g. Flood, Tsunami
- Real-Time Data for Vessels through AIS/AtoN
- Local Tide Analysis and Prediction System together with Tidepredictor Software
- Wave Measurements from Jack-Ups and Rigs
- Server-based Fleet Management Networks incl. Web Portal (e.g. Ferries, Water-Planes, Supply Vessels)
- Discharge Hydrographs

Main Advantages:

- Compact, Low-Weight, Easy to Carry
- Extension With Additional Sensors (Redundancy, Meteorology and Hydrology)
- Remote Data Transmission, Control and Alerting
- Maintenance-Free, no Moving Parts
- Calibration-Free and Accurate due to the Outstanding Sound Velocity Compensation
- Precise, Robust and Economical due to outstanding durability
- Reliable under Extreme Conditions: Flood, Ice, Storms, Debris, etc.
- Narrow Beam for Accurate Level Even at Wavy Water Surface
- Simultaneous Wave and Level Measurement
- Hassle-free Operation and Integration to Measuring Networks
- World-wide Proven and Tested



LOG_aLevel Mobile

Calibration-Free Remote Sensing of Water Level and Waves

GENERAL
ACOUSTICS

Standard System:

- Stainless steel housing (30x30x20 cm), IP 66, lockable
- Ultrasound sensor ULL6080, 6m range, IP 68
- REF300 sound velocity sensor
- Controller module for signal processing and sensor control/data acquisition incl. RTC
- RS232/RS485 data interface
- Power supply 12 V DC
- LOG_aLevel Windows Software for system set-up, online-analysis of measuring network, visualisation, managing, storing and exporting of data



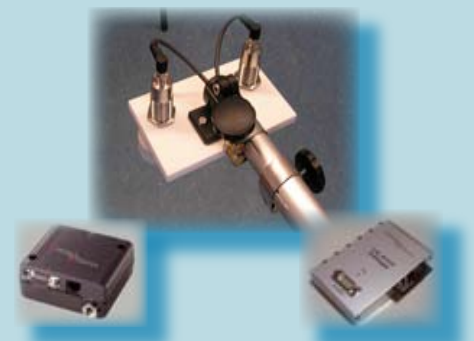
6 m Sensor, Sensor Bracket Mounting, Power Plug

Options:

- Data Logger incl. 4 GB Industrial Grade Flash Card (sufficient for 24 month of 5 Hz data)
- Radio Data Modems: 869, 900, 2.4 GHz (licence free) and licensed UHF/VHF with RS 232 interface
- GSM/GPRS data transmission to dyn. or fixed IP
- Modem or Ethernet-Module LAN/WLAN - connectivity
- Integration into SCADA systems/Modbus, AIS AtoN
- Digital display for direct level reading
- Current loop 4-20 mA output
- Wind generator up to 350 W, Solar panel up to 180 Wp
- 12 V Buffer batteries up to 200 Ah (AGM type)
- Power supply 230/110 VAC; overvoltage protection
- GPS-Time module (pps; drift free 1ms accuracy)
- Additional environmental / redundancy sensors e.g. wind gauge, temperature, humidity, ombrometer, pressure sensors, conductivity, 2D current meter etc.
- Data server, additional Windows application clients
- Client Services for Website, (Spectral) Wave parameters, Export Data Streams, Visualizations and Alerting
- Tideprediction Software for Tide Analysis and Prediction
- Hypack - Export or Data Stream



LOG_aLevel Optional Set-Up



8 m Sensor, GSM/GPRS-modem, CF-Card Data Storage.

Specifications:

Measuring range: 6 / 8 / 10 m
(for Offshore / greater range see LOG_aLevel LR)
Resolution: 1 mm
Field accuracy: 1 cm
Sample rate: up to 5 Hz
Ultrasound sensor: 80 kHz, narrow beam
Working temp: -20 °C up to +70 °C

References:



TAE KWANG ELECTRONICS CORP.

5TH FLR., K-BLDG., 3, SANGAM-RO 41-GIL,
GANGDONG-GU, SEOUL 05307, KOREA

PHONE : 02 479 2703 FAX : 02 479 2705

e-mail : taekwang@tkec.co.kr

www.tkec.co.kr