



**Geomotion**  
AUSTRALIA



Instrument Datasheet

# Automated Water Level Radar

## DESCRIPTION

Water level sensors using radar technology provide a non-contact alternative to other level gauging methods such as submersible pressure transducers, allowing for monitoring in hard to reach locations. Telemetry provides access to data and alerts in near real time and are transmitted wirelessly via carrier networks.

The integrated data logging system is a real-time monitoring station that houses the data logger,

telemetry module, and power/charging supply for autonomous operation. By default, the system is configured to send data 4 times a day, but if the level rapidly rises by an inputted value over a period of time, the system pushes data to provide a flood warning system.

**Speak to Geomotion today to discuss your requirements as each unit is custom built!**

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## APPLICATIONS

### Measure water levels and flood detection in:

- ✓ Dams & open basins
- ✓ Rivers & Streams
- ✓ Open Channels
- ✓ Pump shafts and canal systems
- ✓ Weir flow automation (flow measurements via linearization table).

## FEATURES

- ✓ Level Radar
- ✓ Continuous Readings
- ✓ Ingress Protection: IP66/68
- ✓ Measuring Range: up to 8m
- ✓ Temperature: -40 to 60°C
- ✓ Accuracy: up to  $\pm 5$  mm
- ✓ 4G Modem
- ✓ 20W Solar Panel & Rechargeable battery combo
- ✓ Panel/battery combo supports up to 4x per day upload
- ✓ Push to server feature on flood alert (rapidly rising water).
- ✓ Compact lockable stainless steel enclosure: 300mm x 300mm x 200mm.

## BENEFITS

- ✓ Simple, safe and secure wireless remote access — ideal For installation in areas or places difficult to reach
- ✓ Secure and vandal-resistant
- ✓ Mount directly to abutment, hand rail or pole.
- ✓ Non-invasive continuous readings
- ✓ 24/7 access to data reporting via Geomotion Cloud
- ✓ Real-time automated alerts can be sent via text or email when specified parameters exceed predefined limits.