

TG05 Radar Tide and Water Level Gauge

Non-Contact Measurement for Precise Water Level Monitoring



Kordil TG05 is a non-contact tide and water level monitoring system using 80 GHz FMCW radar technology. Designed for installation above the water surface, it combines radar measurement with TG05 data logging for applications in harbours, rivers, reservoirs and lakes. Its compact sensor and flexible mounting options simplify installation without the need for submerged equipment.



The TG05 monitoring unit provides real-time water level display and data logging for on-site observation and record keeping.

TECHNICAL SPECIFICATIONS

- Operating Frequency: 80 GHz
- Measurement Accuracy: ± 1 mm
- Measurement Range: 0.1 – 60 m
- Measurement Principle: FMCW
- Sensor Power Supply: 12–24 V DC
- Sensor Communication: RS485 Modbus RTU
- System Connectivity: Wi-Fi and internet access
- Sensor Operating Temperature: -30 to $+75$ °C
- Sensor Housing: PP or stainless steel
- Mounting: Bracket or threaded connection
- Configurable distance range and unwanted echo filtering

ADVANTAGES

- Above-water installation without submerged equipment
- Reduced maintenance through non-contact sensing
- Touchscreen interface for convenient on-site monitoring
- Integrated data logging for long-term record keeping

TYPICAL APPLICATIONS

- Coastal tide and water level monitoring
- Harbour and port water level monitoring
- River and open-channel level measurement
- Reservoir, dam and lake level monitoring
- Flood monitoring and early warning systems
- Fixed offshore platform water level monitoring
- Water storage tank level measurement
- Long-term water level and tidal datum studies

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