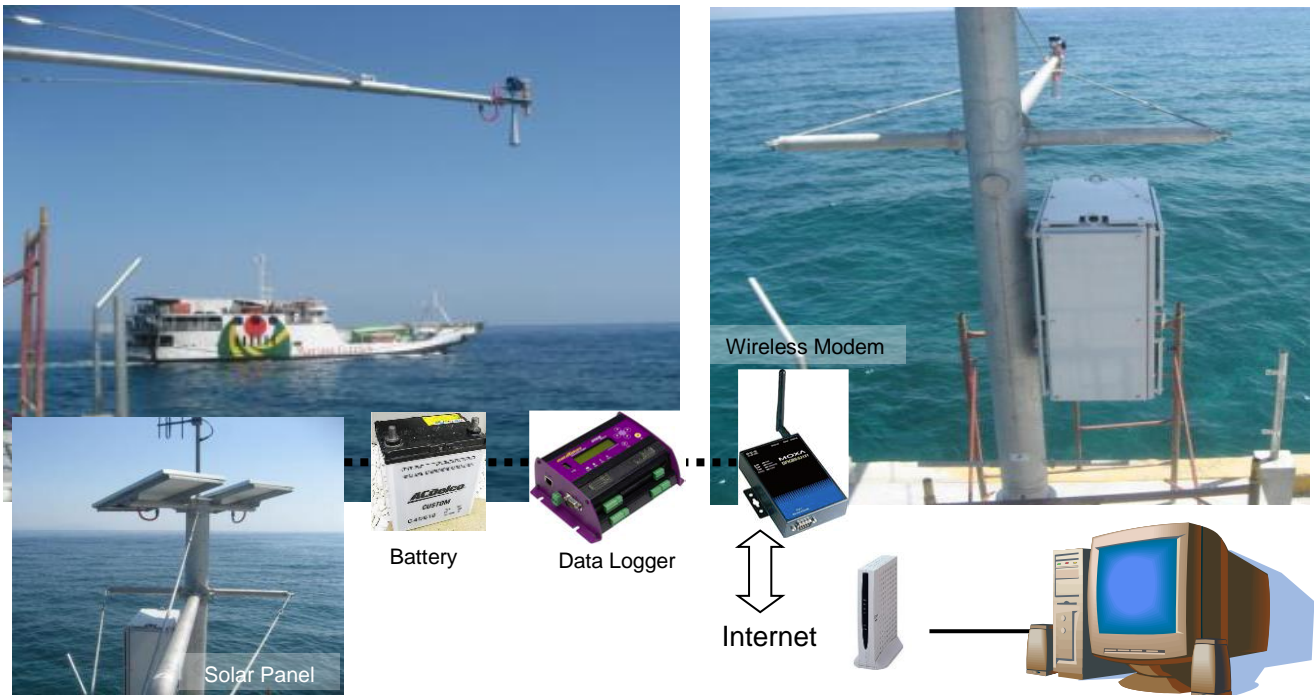


Radar Level Gauge Application Report 36

- Tidal Level Gauge for Monitoring -



The KRG-10 Non-contacting Radar level gauge features accurate & non-contact level measurement with simple installation over a target liquid, in this case, sea surface.

At this particular site, the KRG-10 Radar gauge provides stable level measurement of the tidal level, unaffected by atmospheric conditions like typhoon or fog.

Especially for typical application of tide monitoring station, sea level must be monitored for disaster prevention. So high-accurate and stable level monitoring is suitable application for radar gauge.

Ultrasonic level gauges are also frequently employed as a non-contact means of level measurement. This type of gauge measures the round-trip transiting time of high frequency sounds to and from the surface of a liquid and converts this into distance. Ultrasonic level gauges however are easily affected by fog, vapor, atmospheric pressure, and other environmental factors.

On the other hand, Radar level gauges which incorporate electromagnetic waves (microwaves) are also least affected by ambient conditions.

So monitoring sites are located at seacoast far from residential area, sometimes it is difficult to rely AC power supply at the sites. In such case, solar power supply is popular solution and KRG-10 can work by min. DC 10.5V as a loop-powered transmitter.

Especially for TSUNAMI monitoring, the client expect the system can detect abnormal ebb & flow for prompt alerting to citizens. KRG-10 can be set special parametering to follow rapid level change by TSUNAMI. The gauge can follow level change up to 2m/sec.

Due to above-mentioned facts and merits, we would like to offer this level gauge KRG-10 to this application.

[Application Data]

Typical User : Philippine Institute of Volcanology and Seismology
 Target : Tidal Level, TSUNAMI
 Location : Philippines

[Installation Data]

Main Unit : Radar Level Gauge KRG-10
 Antenna : 4 inch cone antenna
 Range : Approx. 4 ~ 30 m (max.)

For more detailed information, please contact your local representative.

Representative in your Area