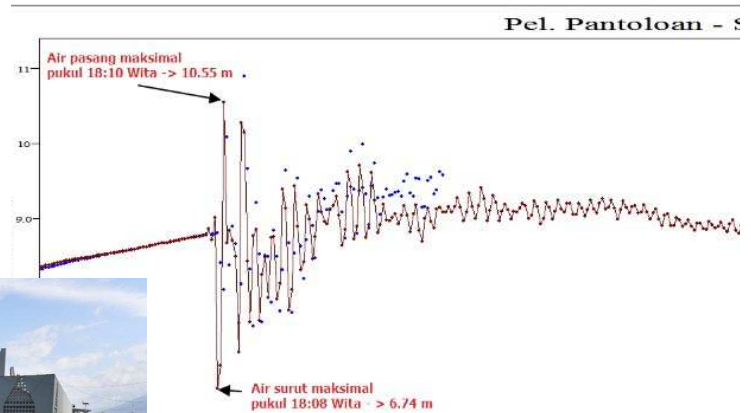


Radar Level Gauge Application Report 14

- Tidal Level Gauge for Monitoring -



Detected seawater level after earthquake changed LV6.74m to LV10.55m. The tidal wave height was 3.81m.

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 expects the system can detect abnormal ebb & flow for prompt alerting to citizens. KRG-10 can be set special parameters 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.

Through actual disaster 2018 in southeast country, only our non-contact radar has been survived and keep measuring the tidal wave calmly without any disturbance.

[Application Data]

Typical User : Government Agency of Meteorology, Construction and Disaster Prevention
Target : Tidal Level, TSUNAMI

[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