



SMART TANK LEVEL MONITORING

KernelSphere



Smart Tank Level

Because of the advantages of directional ultrasonic transmitter, direction, strength and easy to control, and no touch with the object being measured etc., it is widely used in liquid level measurement. In the measurement, ultrasonic pulse from the sensor (transducer) to issue, reflected by the surface acoustic wave sensor to receive the same after the conversion into electrical signals, then, through the time of transmitting and receiving sound waves to calculate the distance from the sensor to the measured object.

The use of ultrasonic level measurement principle can be widely used in meteorological water level measurements, large tank level measurement, level measurement system of salt, testing well water, lakes, canals level, the tank liquid level, fill level in industrial production etc. It can be designed different ultrasonic level meters according to different needs.

Features of water level monitoring

- Easy installation
- Low maintenance
- Compact elegant design
- The automatic water level controller ensures no overflows or dry running of pump there by saves electricity and water
- Avoid seepage of roofs and walls due to overflowing of tanks
- Fully automatic, saves man power
- Consumes very little energy, ideal for continuous operation
- Shows clear indication of water level in the tanks

Specifications

Wireless Frequency Band	865 ISM (option support for European band 868 MHz)
Operating Voltage	Battery powered
Receive Sensitivity	-136 dBm typ.
Operating Temperature	-10°C ~ 50°C
Dimensions	L:59 x W:24 x 11.5mm
Number of Channel	Configurable 8 channels (SKU-EU)
Transmit Power	+20 dBm
Antenna Type	Internal antennas
Modulation	Based on IEEE 802.15.4g
LED indicator	TBD
Protection Requirements	IP67