

# Azonde 2220 CRV Water Monitoring FAQs

## Can the **Azonde** be used to measure small urban streams?

Yes, the **Azonde** CRV 2220 is designed to be robust in all weather and to be placed next to a stream, with the sensor at the deepest point in the stream, and the antenna above the maximum flood level. The Azonde CRV 2220 takes continuous measurements and transmits them back to the web.

## How is the **Azonde CRV 2220** powered?

The **Azonde** CRV 2220 has replaceable consumer 'D' size batteries. We recommend alkaline batteries.

## Can the **Azonde CRV 2220** be solar powered?

Yes, we can supply a solar panel with an internal LiIon rechargeable battery – or you can use any solar panel that provides an output in the range 12-30V.

## Can the **Azonde CRV 2220** be used with an external antenna?

Yes, we supply a 9dB antenna as standard. Alternatively you can use the internal RPSMA connector.

## Can the **Azonde CRV 2220** be used to measure reservoir depth?

Yes, by placing the sensor at the deepest part of the reservoir and attaching the antenna to a pole that is above the highest water level.

## How easy is it to set up the web interface and who can access it?

We do it for you, so it is very easy. You decide if you want the data to be easily accessible by anyone or just by a limited number of people.

## How does the **Azonde** send the measurements to the web?

The **Azonde** harvests solar energy, and uses this to transmit the water depth and temperature measurements wirelessly to the web. It uses the ISM RF band 2.4GHz or 900Mhz with an **Azonde Gateway** that has access to the internet or a cellular radio, which delivers the measurements directly to the internet.



The **Azonde 2200** family of fully integrated solar powered wireless water monitor systems for a wide range of water management applications.

- 2210 EZ for still bodies of water
- 2220 CRV for rural streams/river
- 2230 URBAN for urban streams/rivers

### Software

- 2000 Win PC – self contained
- 2000 Gateway to internet
- 2000 Webserver

Readings are transmitted in real time to your computer or if internet enabled, to the web.

Use for your NPDES hydro modification investigations, in-stream flow, flood level and irrigation pond monitoring. The **Azonde software** can raise an alarm or send an email if a parameter window is exceeded.



[www.Azonde.com/2220](http://www.Azonde.com/2220)

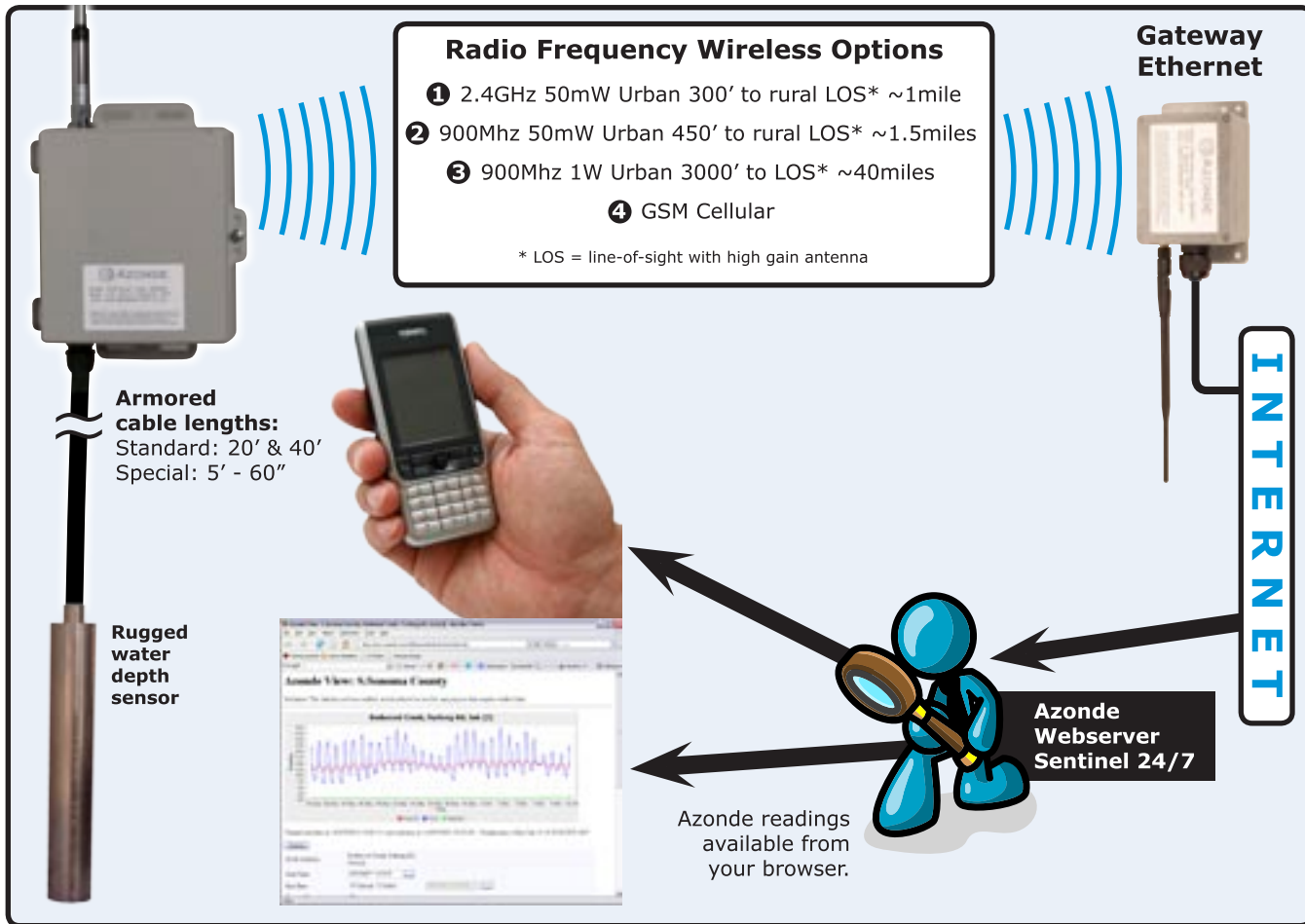
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**The Azonde 220 CRV measures water depth and temperature and transmits the readings wirelessly to the webserver or to a windows PC.**

Lower your total costs with easy installation, low ongoing maintenance, and easy remote management from the comfort of your office.

The Azonde 2220 family software can monitor for specific critical thresholds and send an alert to your email or cell phone.

For flood monitoring, set the Azonde 2220 software to monitor for a high water level, and send an alert when the threshold is reached.

For environmental stream monitoring, set the Azonde 2220 software to monitor for a low water level and send an alert when it drops through the threshold.

**Azonde 2220 Family Specifications**

Stage/depth	Option 1:	Option 2:	Option 3:
Range	0-0.7m (2.2ft)	0-3.5m(11.4ft)	0-10.5m (34.2ft)
Resolution	0.001m(0.003ft)	0.001m(0.003ft)	0.002m(0.006ft)
Accuracy	±0.002m(0.006ft)	±0.010m(0.033ft)	±0.030m(0.098ft)
<b>Temperature</b>	<b>WATER</b>	<b>AIR</b>	
Range	0 to +25C	-20 to +40C	
Resolution	0.1C	0.1C	
Accuracy	±0.2C	±1.0C	
<b>OPTIONS</b>			
Cable length between	Azonde probe and RF Antenna		20 feet
			40 feet
			Custom lengths on request