

Caipos Water Level Monitoring Systems



Caipos water level monitoring systems consist of base station, water level sensors and central web platform.

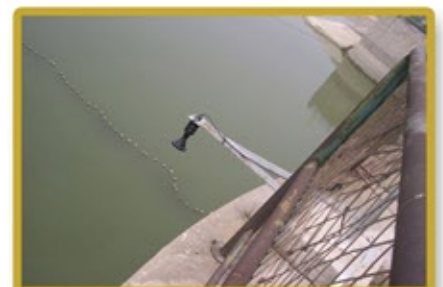
Monitoring systems do not depend on weather and can be used in harsh environmental conditions. Water level radar, float water level sensor, pressure water level sensor and rain gauge can be connected to one station.

Application of Caipos Water Level Systems

1. River monitoring
2. Reservoir monitoring
3. Flood early warning
4. Water management systems

Advantages of Caipos Water Level

1. Non-contact measurement
2. No maintenance
3. High accuracy
4. Independent on weather conditions
5. Continuous monitoring
6. Measurement interval - 10 minutes
8. Upload data interval - 1 hour
9. Upload data every 10 min., if change is detected
10. Early time warnings



Caipos Water Level Monitoring Systems

Automatic water level monitoring systems Caipos are used for flood warnings systems, research and study.

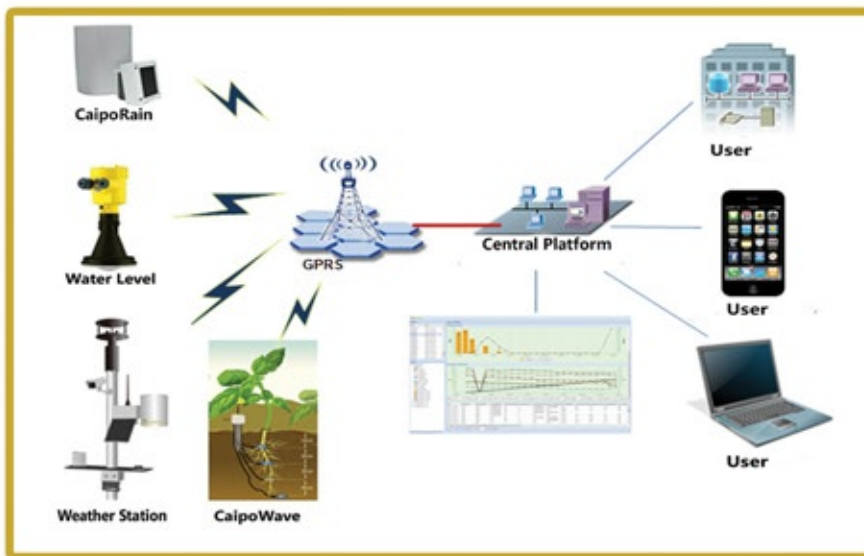
Caipos GmbH is official supplier of China Ministry of Water Resources for soil, water level and precipitation monitoring.



National Certificate for 2011



National Certificate 2013



Principle of Operation

Caipos Systems send data over the Internet to central data platform. Data is stored in robust data bases, processed by efficient algorithm and presented to the user in tabular and graphical view. Free web space is provided with every Caipos system. User can access the data for last 5 years from PC, cell phone or note books. Data older than 5 years is archived and available on request.

Base Station

Main Unit

1. RTU
2. GPRS/GSM Module
3. Battery
4. Solar Panel
5. Sensor Engine
6. Wireless Coordinator

Sensors:

1. Water Level Radar
2. Float Water Level Sensor
3. Pressure Water Level Sensor
4. Rain Gauge
5. Weather Sensors



Advantages of Caipos Systems

- 1. Advanced Technologies:** Caipos Systems use only latest developments in wired/wireless measurements and data transfer technologies.
- 2. Wide Range:** Different wired and wireless sensors can be connected to one base station.
- 3. Ultra Low Power Consumption:** Thanks to advanced design and optimized data processing, all Caipos systems have very low power consumption and long time of autonomous operation.
- 4. Data Transfer:** Data is sent via GSM/GPRS to central data platform every hour, or according the user's settings, or if alarm conditions happen.
- 5. Reliability:** Caipos systems can operate in harsh weather and difficult geographical conditions.
- 6. Low Cost:** High quality, low power consumption, minimal maintenance make Caipos systems one of best cost effective solutions.
- 7. Reliable Central Data Platform:** Web application on the central data platform receives and processes data and controls operation of stations. Constant backups make sure that data is always protected.
- 8. Easy and Fast Installation:** Caipos systems come pre-configured and ready to use. The whole installation takes just 10 minutes.

Technical Data

Dimensions of Main Unit	130x150x120mm,
Battery	6V 4.5AH, 7.2AH,12AH
Solar Panel	149x199x3.2mm, 1.08W
Max. Sensors Quantity	32 wired, 64 wireless
Power Consumption	20-70 uA
Flash Memory	4MB (2 years of data)
Communication	GSM/GPRS, USB
Logging Interval	1 minute - 2 hours
Data Transfer Interval	1 hour - 10 minutes
Operating Temperature	-40°C - +80 °C
Protection Class	IP65
Operation without Sun	more than one month
Lighting Protection	built in protection

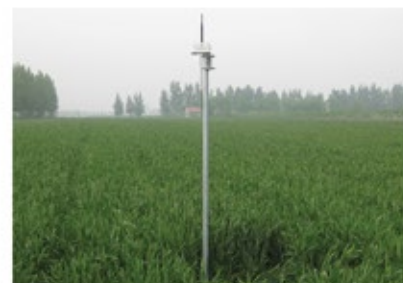
Products of Caipos



CaipoRain



Water Level



Wireless Sensor



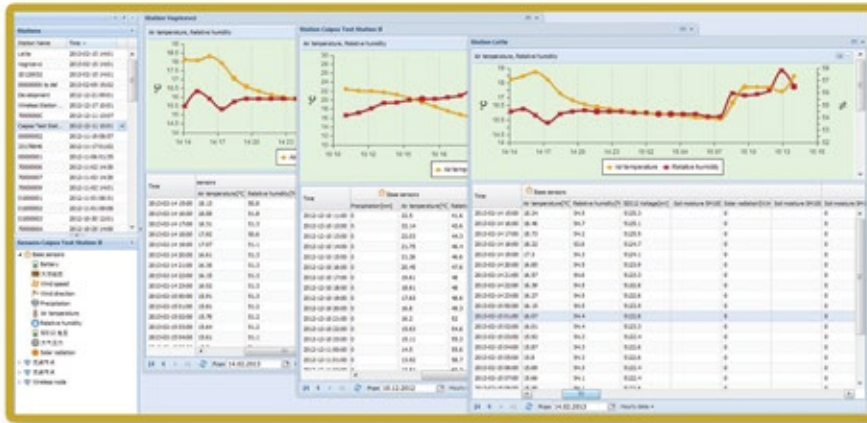
Base Station



Irrigation Control System

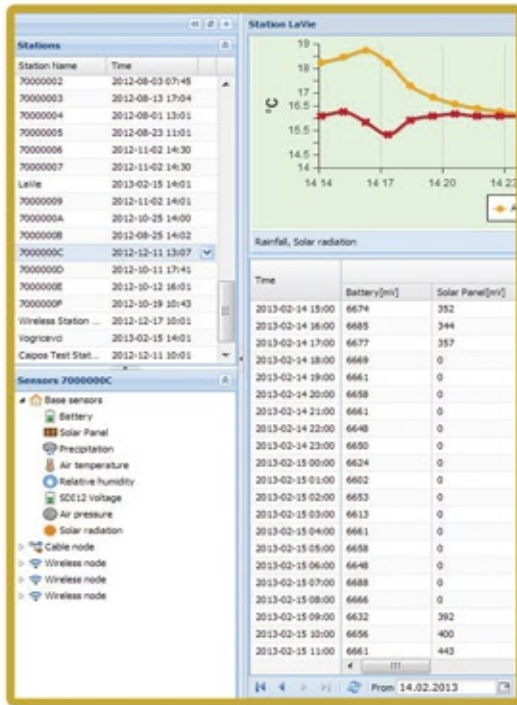
Caipos Water Level Monitoring Systems

Caipos® Central Web Platform receives the data from the stations. Caipos® web application provides the facility to control and manage the stations. User can configure data logging interval, data transfer interval, thresholds for warnings and many other parameters using web application. It enables the users to view or download the data anywhere, anytime on any internet enabled device. Web application is based on Windows, .NET, SQLServer. Every user has personal password protected account. Web application can also be installed on user's hardware.

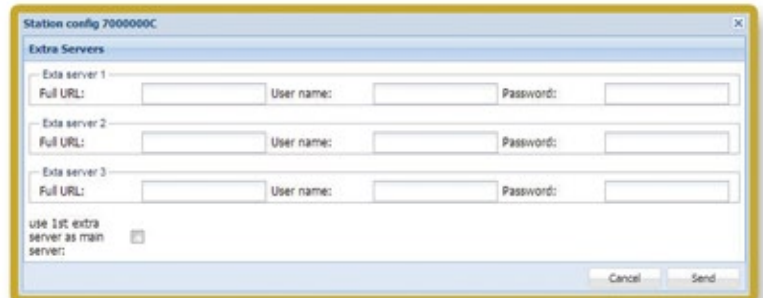


Central Data Platform

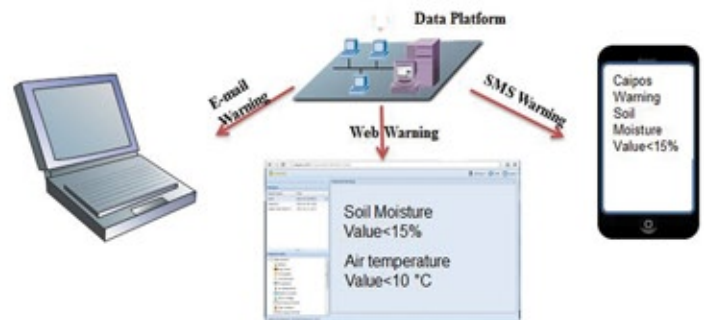
Caipos station can send data to 4 different servers in the same time. The user can specify IP addresses in stations configurations form.



List of Stations and Sensors



Additional Servers Setting



Caipos Warning System

Caipos warning system sends an alert message on mobile phone or warning e-mail if thresholds are reached.

The thresholds can be configured by the user in web application. The warnings can be used for low or high temperature, critical change of soil moisture, precipitation and water level.

Caipos GmbH

Schillerstrasse 5, 8200 Gleisdorf, Austria

email: info@caipos.com

tel.: +43 664 253 7747