

# SIEMENS



## PROCESS INSTRUMENTATION

# Remote monitoring and maintenance through digitalization

[usa.siemens.com/monitoring-apps](http://usa.siemens.com/monitoring-apps)

### Siemens SITRANS store IQ Smart Monitoring Apps

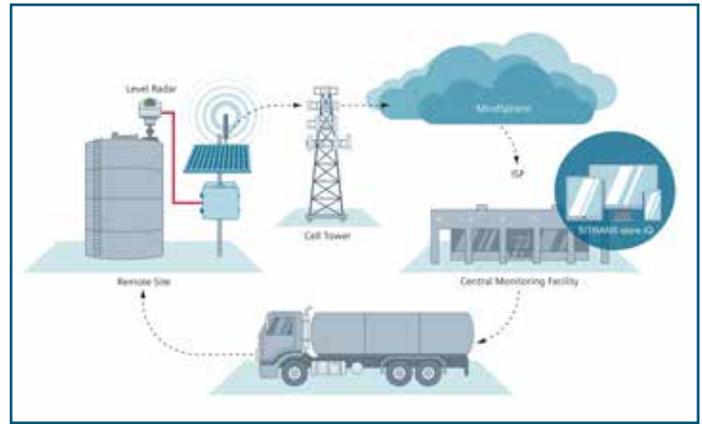
Siemens offers to our customers the ability to make both process measurements, and to remotely monitor the activity and health of instrumentation, whether you have a SCADA, PLC or DCS system, or not. By utilizing Siemens' ability to offer unparalleled flow, level, pressure, temperature, and weight measurement we can provide a broad range of process measurements and offer unequalled monitoring of the health and performance of those products. In conjunction with Siemens Mindsphere, information can then be uploaded to the cloud and used to provide you with real time monitoring of multiple assets, retrieving real time data from multiple remote sites for your user group, anywhere and anytime. In addition, you can receive alarms, alerts and notifications without delay, and extract information into useable data formats for analysis or archival purposes. And all of this can be sent directly to your pc, tablet or phone. Here are just a couple of examples of how you can utilize the Siemens SITRANS store IQ Smart Monitoring App.

### Tank Monitoring

SITRANS store IQ can be designed around your specific remote tank farm monitoring requirements. This can be done by measuring key variables on site, using either Siemens instrumentation or other manufacturer's equipment already installed. Instrumentation, such as tank level, pressure and temperature can be accessed so you can confirm that you have all the necessary information about your installation.

By using the Siemens Mindsphere IIOT, you can transfer the critical information into the cloud and track this information through the SITRANS store IQ on the phones, tablets or PC of designated users. Tracking the status of facilities, confirming current conditions on site, and coordinating delivery and retrieval of material from tank farms are just a few of the benefits of our remote tank monitoring systems.





## Water Monitoring

For applications associated with water or wastewater treatment and distribution, SITRANS store IQ Smart Monitoring App can provide similar information geared towards the requirements of the water/wastewater market.

Whether its truck loading or unloading, lift station activity, water tank levels or tracking the distribution of water through a water network, Siemens can take critical information in remote locations and place it in your fingertips. Through the use of Siemens broad range of flow, level, pressure and temperature measurements as well as valve control, and the same Mindsphere IIOT already discussed, we can provide information that in the past you could only get occasionally, if at all, and put it right into your hands. From here you can not only monitor the throughput in your facilities but also the health of both your measurement and control instrumentation and your distribution network as a whole, with real time information.

## Safety and Security

Siemens SITRANS store IQ smart monitoring apps are read only, with information coming from MindSphere and its secure transfer of information. MindSphere has been implemented in accordance with IEC 62443 for plant and network security as well as system integrity at the plant management and field level as well as access control and communication security.

## Choose from a broad range of communications infrastructure options to suit your needs.

Siemens industrial wireless communications can provide the link between field instrumentation data and the MindSphere cloud. Our mobile wireless routers enable data transfer to MindSphere in remote locations and come with options for multiple cellular communications standards including LTE, UMTS, and GSM. This extended offering ensures the best signal for data transfer and the most reliable network for installations. Siemens adheres to the highest security standards in network security, and all communications solutions are encrypted with firewall protection to defend against unauthorized access and cyber threats. No matter the size of the network, our scalable and secure industrial communications technology is capable of delivering the solid foundation required for safe and efficient process monitoring.

## SITRANS store IQ Monitoring App User Groups Are Defined By You

The size of your user group, how your information is transferred to the MindSphere Cloud and how often your information is updated is designed by you. In addition your SITRANS store IQ app has one or more administrators that are designated by you. We customize to your requirements in order to provide the best solution for your monitoring needs and budget. Whether you have one user or 100 or more, and if you need your information updated once a day or every minute, Siemens can provide a subscription plan and app tailored to provide you the visibility you need for your operation.

## Typical Applications (depending on your specific requirements)



**Tank Level**



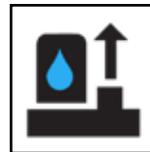
**Remote Pumping Stations**



**Truck Loading/Unloading**



**Pipeline Safety and Security**



**Remote Lift Stations**

Keep an eye on virtually any other part of your operation that previously required your presence on site or in the control room. Whether you have Siemens instrumentation or not. Whether your outputs are digital or analog. Whether or not you have a PLC or DCS system. The SITRANS store IQ Remote Monitoring App can take critical information from your process instrumentation and put it in the hands of the people who need to see it.

### Legal Manufacturer

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