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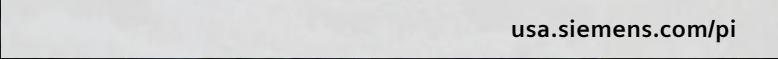


Process Instrumentation



## Securely connecting the field to the cloud

Remote monitoring hardware packages for  
every instrument and application



[usa.siemens.com/pi](http://usa.siemens.com/pi)

For the process industries, the ability to remotely monitor your instrumentation and assets in real time is a cost-saving first step on the journey into digitalization. Siemens MindSphere, the cloud-based IoT operating system, stores your valuable process data and makes it available for viewing and analysis – anywhere, anytime. But how do you get from the field to the cloud? With a remote monitoring hardware package from Siemens Engineered Instrument Solutions (EIS), it's easy to upgrade your instruments to cloud-connected devices that transfer your data reliably and securely.

### Complete hardware packages to suit your requirements

Our integrated hardware solution makes it possible to transfer measurement data from any process instrument to the MindSphere cloud environment, regardless of device or location. Choose from one of our cost-effective standard packages or design a customized system based on your unique monitoring needs.

A typical Siemens remote monitoring hardware package consists of:

- MindConnect IoT2040 dedicated IoT gateway to MindSphere
- SIMATIC S7 programmable logic controller for flexible field device communication and data collection
- Optional SCALANCE M mobile wireless industrial router for IP-based networks
- Optional SIMATIC HMI touch panel for local display of process data
- Plus, the peace of mind that communication between our hardware and MindSphere is one-way and encrypted, ensuring the security of your instruments and information

### Cross-industry flexibility

Remote monitoring hardware packages are available with 2 to 24 connected data points, multiple communications protocols, and a variety of different connectivity, display, power and enclosure options. There's a package for virtually every process in any industry. Just a few application examples include:

- Measuring level and flow in a single remote lift station at a wastewater treatment plant
- Maintaining a live view of the level and volume within several oil tanks at a remote tank farm
- Taking simultaneous level measurements in a bank of cement silos spread across a large facility

Hardware package configurations	
Data points	2 to 24+
Display	Local HMI option
Connectivity	On-site internet connection or remote cellular connection (Verizon Wireless or AT&T)
Power	120 VAC standard; solar with battery backup available on request
Enclosure Rating	NEMA 4 standard; NEMA 4X available on request



### Real-time monitoring at your fingertips

By securely connecting your field devices to the MindSphere platform with a Siemens remote monitoring hardware solution, you'll unlock the hidden potential of your data. MindSphere offers you access to a rapidly growing number of ready-to-use apps designed to collect information from remote sites and display it in real time on any phone, tablet or computer.

For the water and wastewater industry, use the Siemens Water Monitoring App (WatMon) to track or monitor water distribution through a network and to control water loss. For the hydrocarbon industry, the Siemens Tank Monitoring App (TankMon) allows you to monitor total inventory, track drop-offs and pickups, pinpoint leaks or theft, and improve overall asset visibility for key stakeholders. And since MindSphere is an open platform, new apps to enhance process visibility and control are constantly in development.

Ready to start on your personalized path to digitalization? Contact the Siemens EIS team today to find out how you can upgrade your remote monitoring capabilities: [eis.solutions.us@siemens.com](mailto:eis.solutions.us@siemens.com)

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