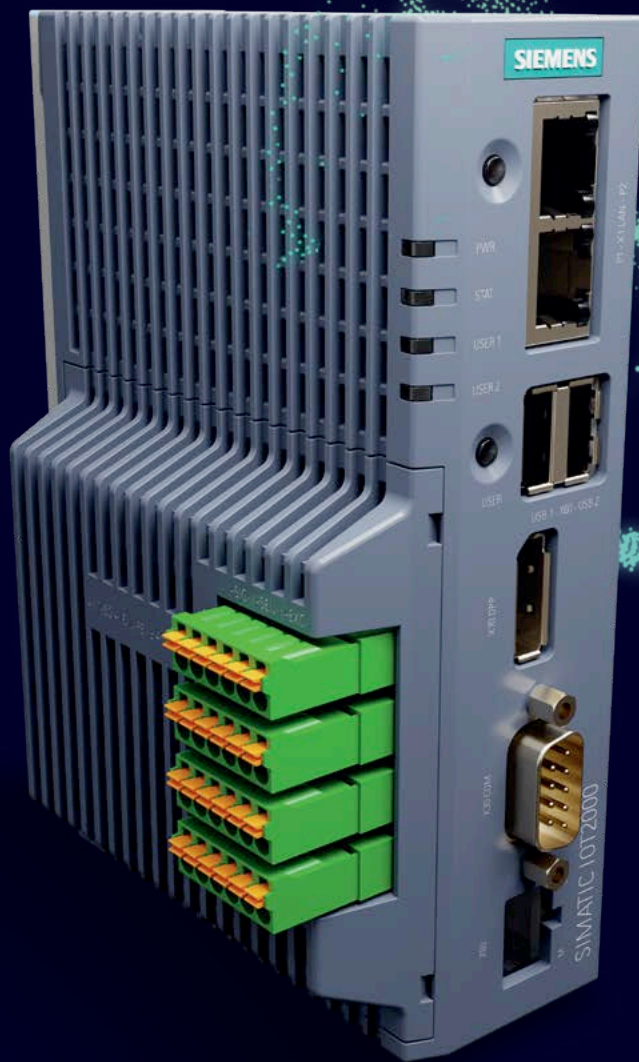




SIMATIC IOT2000 SG-SHIELD: MAXIMUM TRANSPARENCY OF FILL LEVELS

The easy way to digitalize
your weighing data

SIEMENS

Would you like to optimize your delivery processes?

Every kilometer a truck is driven costs time and money, especially if your customers are far apart from one another. It's frustrating and expensive if you have to stop by every single farm, restaurant, or building site individually for short-term orders. Do you have established routes and do you deliver on spec? There's a better way. Now you can ensure that your drivers never again return with their trucks half full because many of the containers, tanks, silos, or chutes still aren't empty. SIMATIC IOT2000 SG-Shield lets you always keep an eye on your customers' fill levels and optimally plan your delivery routes.



View levels remotely

SIMATIC IOT2000 SG-Shield is the easy way to remotely view measured values from load cells on the basis of strain gauges. The load cell cable is simply connected directly to the shield. The system digitalizes the analog data and sends it to the cloud via the SIMATIC IOT2050 gateway so that you can retrieve your customer's levels at any time and adapt your delivery routes accordingly. You don't need specialized, in-depth IT or automation expertise to set up the solution.

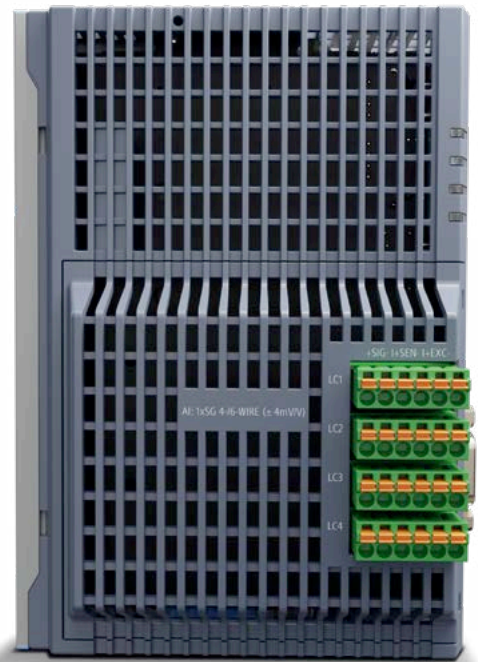


Your **direct connection** to the Internet of Things (IoT)

SIMATIC IOT2000 SG-Shield comes with software example and all the interfaces necessary for commissioning the system via a Node-RED Dashboard and connecting it to the cloud. At the same time, the measured values recorded can be stored, for example, in MindSphere – our open cloud-based IoT operating system – and retrieved by means of our SITRANS store IQ app. Naturally, you can also connect higher-level office business systems or individual applications that monitor levels – for example, to automate your order processes or route planning.

Openness, thanks to open source software

The actual interface to the cloud is provided by our SIMATIC IOT2000 gateway family. SIMATIC IOT2000 SG-Shield is simply connected to the device and the requisite software image is loaded to the Micro SD card. That's all. You now have your connection to the Internet of Things. Thanks to integrated, open source software (Node-RED for connecting to IoT components), the measured values aren't stuck in a proprietary closed system but, with little programming effort, can also be integrated in any manufacturer-independent system. For you, this means maximum flexibility and openness.



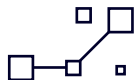
Your benefits at a glance



Your customers' levels are always in view



Access to measured data via web browser or SITRANS store IQ app for mobile devices



Connecting to the cloud (e.g. MindSphere), your own server, and higher-level business systems possible



Plug-and-play software example, easy to commission



Only little programming expertise required



No automation system necessary

SIMATIC IOT2000 SG-Shield

Technology	1 Analog/digital converter (ADC), strain gauge sensors electrically connected in parallel
Areas of application	All monitoring applications with strain gauge sensors
Analog connections	Up to four strain gauge sensors
Connectivity	MindConnect Library, Node-RED
IoT interfaces	Via SIMATIC IOT2050 (IoT gateway), easily installed on SD card via software image
Article No.	7MH4647-OKK00-0AA2 strain gauge

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