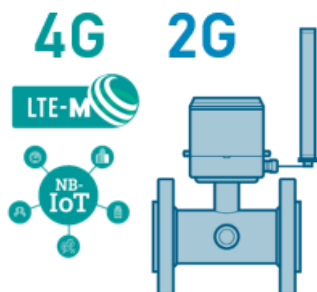




SITRANS FM MAG 8000

IloT Wireless Communication Module & IloT Web Application

Product Sheet and Specific Terms



The main application of the SITRANS FM MAG 8000 is to measure flows in water distribution networks and provide meter readings. These meter readings can be read on the display or transmitted electronically by the use of additional modules, such as pulse outputs, Modbus, encoders or 3G/UMTS WCM. The IloT (Industrial Internet of Things) **Wireless Communication Module** (WCM) offers another possibility with the transmission of meter readings via the mobile network. Future-proof, state-of-the-art mobile communication protocols have been implemented and the user-friendliness has been significantly improved. The IloT WCM for the SITRANS FM MAG 8000 is consisting of a hardware part combined with a web-hosted application for measurement data transfer and device management.

The benefit for the customer is the remote access to the MAG 8000 meter readings in the IloT Web Application, the remote configuration and the interface to customer's DCS. The IloT WCM is using the public mobile network as channel for transferring the measurement data to a cloud-based platform, accessible through the MAG 8000 IloT Web Application where only authorized users can have access to. The web application serves as interface for the end user to provide the measurement data per email or FTP.

The communication between the field device and web application runs over MQTT protocol. The MQTT protocol is a widely used protocol in the IoT world.

Prerequisites for SITRANS MAG 8000 IloT Wireless Communication Module and IloT Web Application

Hardware	The MAG 8000 IloT Web Application is only compatible with data provided through SITRANS FM MAG 8000 devices, where a IloT Wireless Communication Module (IloT WCM) and the SIM-card provided by Siemens is correctly installed.
Initial Connectivity/Activation	In order to use the web application, the IloT WCM with inserted SIM-card provided and pre-configured by Siemens must be plugged into the SITRANS MAG 8000 device and connected with the best suited mobile network. A

	<p>Cat M1, NB-IoT or 2G network must be available at the installation site of the MAG 8000.</p> <p>An initial activation connectivity between MAG 8000 device and the web application is part of the service Siemens delivers with the IIoT WCM (“Initial Activation”). After registration (see below under “entitlement”) and authentication to web application full access to the main application is granted. To successfully complete the connectivity the claiming and onboarding process of the provisioned MAG 8000 field device has to be done via the web application.</p> <p>The SIM Card is only suitable for the mentioned Hardware. The SITRANS MAG 8000 Web Application cannot be accessed with other SIM cards than the one provided by Siemens.</p>
Reliability of Communication/Prerequisites for the data transfer	<p>A Cat M1, NB-IoT or 2G network at the installation site of the MAG 8000 is prerequisite for the transfer of data from the MAG 8000 field device to the IIoT Web Application.</p> <p>To access the IIoT Web Application an internet connection is required on end user side/responsibility.</p>
Web browser	<p>An HTML5 capable internet browser with a screen resolution of 1920x1080 or higher is required (e.g. Google Chrome or Microsoft Edge). Google Chrome is recommended.</p> <p>Mobile devices and tablets with a display size <9 inch are not supported.</p>

Description of SITRANS MAG 8000 IIoT Wireless Communication Module and IIoT Web Application

General	<p>SITRANS FM MAG 8000 IIoT WCM contains the following package:</p> <p>SITRANS FM MAG 8000 (optional, when ordered as complete unit via order number 7ME68(1/2)0-.....-(L/N)) (Hardware Device)</p> <p>IIoT Wireless Communication Module (Hardware Device)</p> <p>A 3-years access* and the use of the web application</p> <p>A 3-years data package** for measurement data transfer including a pre-configured SIM Card suitable for the IIoT Wireless Communication Module to enable the access to the SIEMENS FM MAG 8000 IIoT Web Application</p> <p>The 3-years access and connectivity start after registration and authentication to the IIoT Web Application and thus with the first activation of the MAG 8000 device and the IIoT Wireless Communication Module by the customer.</p> <p>*and **: The 3-years access and 3-years data package are only granted under the condition that the first activation by the customer is done within 2 years period which starts with the confirmed delivery date (EX-Works). If the first activation by the customer takes place outside this 2-years period, the 3-years access and data package period will be shortened accordingly.</p> <p>The use of the IIoT Wireless Communication Module and the IIoT Web Application is limited to the countries as listed in this Product Sheet.</p>
Description SITRANS FM MAG 8000 hardware devices including IIoT Wireless	<p>The SITRANS FM MAG 8000 is a comprehensive meter, which intelligent information and high-performance measurement as well as the easy to</p>

<p>Communication Module</p>	<p>install concept take cost of ownership and customer service to a new level for water meter. The device is battery or mains power operated, it works on the electromagnetic principle and is mainly used to provide one or more meter readings. The Product specification for SITRANS FM MAG 8000 hardware field device is available in the PIA Lifecycle Portal depending on the MLFB configuration.</p> <p>To submit these meter readings to the customer there is an IIoT Wireless Communication Module available. The module uses the public mobile network to transmit data periodically from a MAG 8000 field device to the IIoT Web Application.</p>
<p>Data Transfer to the IIoT Web Application</p>	<p>A pre-installed SIM card is part of the SITRANS FM MAG 8000 IIoT WCM package to enable the data transfer from the SITRANS MAG 8000 field device to the IIoT Web Application. The data transfer is done via a Cat M1, NB-IoT or 2G network. The network selection is done automatically by the module.</p>
<p>Main functionalities of the IIoT Web Application (Cloud Services)</p>	<p>The main functionalities of the SITRANS MAG 8000 IIoT Web Application are:</p> <ul style="list-style-type: none"> • Collect and show data from distributed SITRANS FM MAG 8000 devices, e.g. process values, battery capacity, alarms • Data transfer via Email or FTP to other IT systems of the respective customer • Asset management (Life list MAG 8000 devices, claiming and onboarding procedure, user role administration, structuring of assets) • Device configuration (MAG 8000 parameter setting) • Device monitoring (Measurement data-on-demand, alarm history, real-time-messaging) • Device health status (Remote diagnostic, qualification certificate)
<p>Application permissions/Data</p>	<p>The MAG 8000 IIoT Web Application is operated in data centers in Europe (United Kingdom and other countries in Europe) and processes the following data received from onboarded MAG 8000 devices:</p> <ul style="list-style-type: none"> • Time series data which include the variables received from an asset within defined continuous time cycles. • Asset configuration data which describes the asset (e.g. asset name) • User data (Username, email address, telephone number) <p>The MAG 8000 IIoT Web Application performs the following activities which modify or amend your content in your account.</p> <p>Read access on your meter data:</p> <ul style="list-style-type: none"> • Read access to totalizer 1 to 3 and the actual flowrate <p>Read/write access on your asset configuration data:</p> <ul style="list-style-type: none"> • Read/write access on asset configuration data is required in order to use the functionalities of this application.

Supported devices	<p>The MAG 8000 IIoT Web Application supports solely the communication to an IIoT WCM that must be installed in a MAG 8000 device with firmware V3.11 or above and is assigned to a designated user. Precondition for the use of the web application is that a connection of a MAG 8000 IIoT WCM to the mobile network is successful established by using the preconfigured SIM Card. Order code (MLFB) MAG 8000 device: 7ME6810, 7ME6820. You are solely responsible for the selection, configuration, and onboarding of SITRANS FM MAG 8000 devices with IIoT WCM.</p>
Countries	<p>The use of the IIoT WCM and the IIoT Web Application is allowed in the following countries: Australia, United States of America, European Union, Switzerland, Norway, UK</p> <p>Siemens might extent this list to further countries during the license term.</p>

Pricing Model and Entitlement

Subscription Term/Basic Information	<p>The purchase of a SITRANS FM MAG 8000 IIoT WCM contains the following package:</p> <p>SITRANS FM MAG 8000 (optional, when ordered as complete unit via order number 7ME68(1/2)0-.....-(L/N))</p> <p>IIoT Wireless Communication Module</p> <p>A 3-years access* and the use of the web application (“Subscription Term”)</p> <p>A 3-years data package** for measurement data transfer (according to the parameter limits described in the manual) including a pre- configured SIM Card suitable for the IIoT Wireless Communication Module to enable the access to the SIEMENS FM MAG 8000 Web Application</p> <p>Each MAG 8000 IIoT WCM is counted as one device obtaining access for the connectivity between MAG 8000 device and the cloud-based web application (device-based access).</p> <p>A prolongation of the access with different duration is intended to be available. Such prolongation has to be ordered separately.</p> <p>The 3-years access and connectivity start after registration and authentication to the IIoT Web Application and thus with the first activation of the MAG 8000 device and the IIoT Wireless Communication Module by the customer.</p> <p>*and **: The 3-years access and 3-years data package are only granted under the condition that the first activation by the customer is done within 2 years period which starts with the confirmed delivery date (EX-Works). If the first activation by the customer takes place outside this 2-years period, the 3-years access and data package period will be shortened accordingly.</p>
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Billing Cycle and Payment Terms	<p>The access to MAG 8000 IIoT WCM web application and data package for measurement data transfer is charged one-time at provision of license.</p> <p>After the expiration of the 3-years period there is the option for renewal of the access, that must be ordered separately.</p>
Entitlement	<p>The first user of an end customer company must create an account based on an email address. This account serves as the main account of this company. Via this main account, the user can create further accounts for its company. An email address can only be used to create one account. As each account contains personal data (email address, name and/or phone no.), it is not permitted to pass it on or make it accessible to third parties.</p>
MLFB	<p>MLFB MAG 8000: 7ME68(1/2)0-.....-(L/N).</p> <p>Product specification for SITRANS FM MAG 8000 hardware field device is available in the PIA portal depending on the MLFB configuration.</p> <p>MLFB Upgrade kit MAG 8000 IIoT WCM (LTE-M, NB-IoT, 2G), including module, SIM-Card, antenna, adaptor cable, cable gland, O-ring: A5E51150447</p> <p>MLFB MAG 8000 IIoT WCM (LTE-M, NB-IoT, 2G), including SIM-Card: A5E51093917</p>

Applicable Terms

Applicable Terms	<p>The terms & conditions are available under: www.siemens.com/mag8000iiott+c</p>
Concept of Terms and Conditions	<p>In addition to this product sheet and further terms referenced herein, the following terms and conditions will apply:</p> <ul style="list-style-type: none"> For hardware as part of the package as described in this Product Sheet: (i) the UNIVERSAL CUSTOMER AGREEMENT for SITRANS MAG FM 8000 IIoT Wireless Communication Module and IIoT Web Application and (ii) the Hardware Supplemental Terms for SITRANS MAG FM 8000 Wireless Communication Module as well as the terms and conditions of the documents referenced in (i) and (ii). The terms and conditions as mentioned in the previous sentence have to be accepted prior to any purchase of the hardware devices. For the IIoT Web Application: (i) the UNIVERSAL CUSTOMER AGREEMENT for SITRANS MAG FM 8000 IIoT Wireless Communication Module and IIoT Web Application and (ii) the Supplemental Terms for MAG 8000 IIoT Web Application as well as the terms and conditions of the documents referenced in (i) and (ii). The terms and conditions as mentioned in the previous sentence have to be accepted by clicking an "I accept" button prior to the creation of an account to the IIoT Web Application in an electronic system specified by Siemens.

Specific Terms

No-charge offerings	The IIoT Web application is not considered to be a no-charge offering, although not billed separately, as it is sold as part of a chargeable package.
Application of rights	<p>The hardware devices may be resold to third parties (e.g. your customers). As the use of the IIoT Web application requires the creation of an access (authentication), the IIoT Web application license may neither</p> <ul style="list-style-type: none"> (i) be transferred or resold after the creation of an access ; nor (ii) be sub-licensed, published, loaned, or leased for the benefit of third parties without the prior written consent of Siemens. <p>Pre-requisite for the use of the IIoT Web application is the acceptance of the contractual documents as mentioned in this Product Sheet prior to the creation of an account.</p> <p>In case of a resale or transfer of the license for the IIoT Web Application as permitted by this Product Sheet to a third party, you agree to provide such third party with the applicable documents that have to be accepted prior to the creation of an account.</p> <p>The documents can be found here. www.siemens.com/mag8000iiott+c</p>
Resale of Hardware Devices and use of the IIoT Web Application	<p>The Hardware Devices of the STIRANS MAG 8000 IIoT Wireless Communication Module and IIoT Web Application package as identified in the Product Sheet may be resold to third parties (e.g. your customers). As the STIRANS MAG 8000 IIoT Wireless Communication Module and IIoT Web Application package consists also of the IIoT Web Application, the IIoT Web Application may be transferred to a third party as described in this Product Sheet (Section: "Application of rights"). The transferring party has to inform the respective third party of the obligation to accept the contractual terms (please see Section "Applicable Terms") prior to the creation of an access in the IIoT Web Application. In addition, the third party has to be informed of the applicable subscription term (Section "Subscription Term/Basic Information").</p> <p>In case of a transfer of the Hardware Device and the creation of an access by the third party, the contracting party of Siemens must be able to provide Siemens with the respective third party's contact data.</p>
Changes to the Product Sheet and Specific Terms	We may update this document from time to time during a Subscription Term in order to reflect any changes agreed with or imposed by our subcontractors (including changes in opensource software license terms) or when we introduce new features, supplements, enhancements or capabilities (e.g. that were not previously included with the subscription, but added for no additional fee). Changes shall become binding upon release of a new version of this document on www.siemens.com/mag8000iiott+http://www.mindsphere.io/terms .
Services and maintenance	<p>Technical Support</p> <p>If this documentation does not completely answer your technical questions, you can enter a Support Request (http://www.siemens.com/automation/support-request).</p> <p>For help creating a support request, view this video here.</p>

Additional information on our technical support can be found at Technical Support (<http://www.siemens.com/automation/csi/service>).

Service & Support on the Internet

In addition to our technical support, Siemens offers comprehensive online services at Service & Support (<http://www.siemens.com/automation/serviceandsupport>).

Contact

If you have further questions about the device, contact your local Siemens representative at Personal Contact (<http://www.automation.siemens.com/partner>).

To find the contact for your product, go to "all products and branches" and select "Products & Services > Industrial automation > Process instrumentation".

Contact address for business unit:

Siemens AG
Digital Industries
Process Automation
Östliche Rheinbrückenstr. 50
76187 Karlsruhe, Germany

Export Control Regulations

AL

Hardware & Web Application: AL = N

ECCN

Hardware & Web Application: ECCN = 5A992

Security Information

General

To protect plants, systems, machines, and networks against cyber threats, it is necessary that you implement and continuously maintain a holistic, state-of-the-art industrial security concept.

Security Information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, systems, machines, and networks.

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept.

Customers are responsible for preventing unauthorized access to their plants, systems, machines, and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary, and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place.

For additional information on industrial security measures that may be implemented, please visit <https://www.siemens.com/industrialsecurity>. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats.

To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under <https://www.siemens.com/industrialsecurity>.

Definitions

FTP	File Transfer Protocol
IIoT	Industrial Internet of Things
IIoT Web Application	The browser-based application which allows access to the MAG 8000 process data, real time notifications of alarms, online configuration and remote diagnosis of the field device
IIoT Wireless Communication Module	Wireless Communication Module - module added to MAG 8000 unit to extend in with GSM/GPRS functionality
MQTT	Message Queuing Telemetry Transport – a network protocol for machine-to-machine communication
SIM card	Subscriber Identification Module, which is a smart card that gives a cellular mobile device its network identity and security credentials and that is included in the Hardware provided by Siemens.