

# imc SIMPLEX

## Cloud sensor database for imc STUDIO

imc SIMPLEX enables extremely fast configuration of imc ARGUS*fit*-channels by means of validated sensor settings prepared in a cloud. This massively reduces the risk of errors in configuring a measurement system.

### Application examples

- When you scan a sensor with your cell phone, the sensor is displayed in imc STUDIO. By means of Drag&Drop it can be dragged to the target channel. The channel adopts all of the sensor's information and is ready for measurement.
- When you have a pile of cable terminals in front of you, how do you know which one is the right one? Simple: all cable terminals are equipped with RFID. The app lets you scan the cable terminals and obtain the info indicating what terminal you are holding in your hand.
- You have a cabinet full of sensors in their packaging. The packaging is equipped with RFIDs. Using the app, you can scan a package to find out what sensor it contains and whether it is right for your measurement, and even whether it is already appropriately calibrated.

### Product overview

imc SIMPLEX consists of three components: the imc STUDIO plug-in, the mobile app and the website.

Using the website interface it is possible to set up and configure sensors. This determines which imc measurement modules can measure with the sensors. The finished sensor configuration is made available in a database. If the sensor is equipped with RFID, a barcode or QR-code, it can be scanned with a cell phone. imc STUDIO then provides the appropriate sensor configuration to apply to the channel. It is also possible to enter specific measuring point definitions including harmonized signal names, or generic sensor types.

### Functions

- Access to imc SIMPLEX sensor database via the Internet. The sensor database is supplied by imc.
- Sensor configurations are saved in the database. There is no limit on the sensor count.
- The sensors are either set up/edited via the website.
- The sensor configuration comprises everything from the measurement type (temperature, pressure, ...), to calibration (offset, sensitivity), all the way to the sampling rate.
- imc SIMPLEX provides an indication of which modules the sensor is suitable for.
- The sensors are made available in imc STUDIO and can be dragged to the desired module channels, which then apply the entire configuration.
- It is possible to assign RFID-tags to the sensors. The RFID can be applicable either to individual sensors or to a whole sensor type. Example: the RFID is attached to a sensor or a cable, or it is attached to a box and pertains to all of the sensors in that box.
- A cell phone can scan the RFID, and the app then automatically displays all of the sensor's information. The Sensors list in imc STUDIO displays the corresponding sensor so that it's entry can easily be dragged to the desired channel. This is possible whenever the same imc SIMPLEX user is logged in to both the PC and the app.

- In order to use imc SIMPLEX, each user needs a user account. These user accounts can be set up by the database's designated administrator. For this purpose, a variety of user roles having associated privileges are available:

Function	Reader	Editor	Admin
Sensor reading	•	•	•
Sensor assignment to channel	•	•	•
RFID scanning	•	•	•
Sensor setup		•	•
Sensor editing		•	•
Sensor deletion		•	•
User setup			•
User role editing			•

## Supported imc measurement device groups

A device belonging to the firmware group B - e.g. imc ARGUS*fit*, imc EOS.

## System requirements

- Browser: an up-to-date browser
- Cell phone operating system: Android 5 or higher, or IOS 10.3 or higher (find details in your respective app store)
- Cell phone: NFC-enabled or barcode/QR code enabled, depending on application
- imc STUDIO 2023 R3 or higher
- Connection to the internet with access to the imc SIMPLEX server

## Licensing

Licensing is independent of imc STUDIO and the imc LICENSE Manager.

- **Separate licenses** are required for imc SIMPLEX, which cover the **use of the cloud services** and the imc SIMPLEX Assistant.
- The license model is a **subscription** that is activated or renewed by **paying an annual fee**.
- Licensing involves creating user accounts on the imc SIMPLEX server. Upon order, the number of allowable user accounts is specified. Later extensions are supported.
- A user account includes the authorization to log in to the imc SIMPLEX server via the mobile app, the website and via imc STUDIO. In addition, depending on the configured user role, it allows the configuration and/or readout of sensor information. A user account is not bound to specific devices.
- The installation of the mobile app and the imc STUDIO plug-in are license-free. However, their meaningful use requires log-in with a licensed user account.

If you have problems or questions, please contact our Customer Support/Hotline:

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