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iID® software. tools



Quick Start Guide

iID® software tools

iID® EPC programmer

microsensys 2016

Introduction

iID® EPC programmer is a technical tool designed to perform formatted initialization of ISO18000-6c compatible UHF RFID transponders based on ORM (optical readable media) or manual data input.
For this, iID® EPC programmer requires Android smartphone (with integrated camera or ORM reader) and iID® contactless UHF RFID interface to send ISO18000-6c commands to compatible RFID transponders. iID® EPC programmer software is compatible with Android devices with platform version 9 or later.

iID® EPC programmer supports the following encoding features[1]:

- **EPC standard - Global Individual Asset Identifier (GIAI)**
- **EPC standard –Serial Global Trade Item Number (SGTIN)**
- **Raw HEX encoding**

Please ask microsensys for customized implementations of iID® EPC programmer to have the tool perfectly tailored to your custom environment.

Further tools iID®UIIwriter or iID® programming system available for other platforms, encoding schemes and system environments,

[1] Further encoding features available on request.

System requirements / installation

System environment:

	Remark
iID® EPC programmer	*Download in Google Play Store and contact microsensys*
iID® contactless UHF RFID interface (e.g., iID® PENsolid PRO UHF)	*Please contact microsensys for a list of compatible devices*
Handheld Android device (on request for iOS devices)	*Supported from Android version 9*
ISO18000-6c compatible UHF RFID transponder	*Please contact microsensys for a list of compatible devices*



Figure 1: iID®EPCprogrammer Bundle incl. License for Android App, iID PENsolid PRO UHF and UHF RFID transponders

Please install the iID® EPC programmer application from Google Play Store or using the apk-file provided and connect your iID® contactless UHF RFID interface with your Android device via Blutooth™ connection. After the installation you may now start iID® EPC programmer using the menu of your handheld device.

Operation

Start iID® EPC programmer app on the Android device. Following iID® EPC programmer GUI will be displayed on your mobile device. Tap on the START button to continue and starting the programming process. Tap the settings icon to change the EPC memory length of the respective encoding.

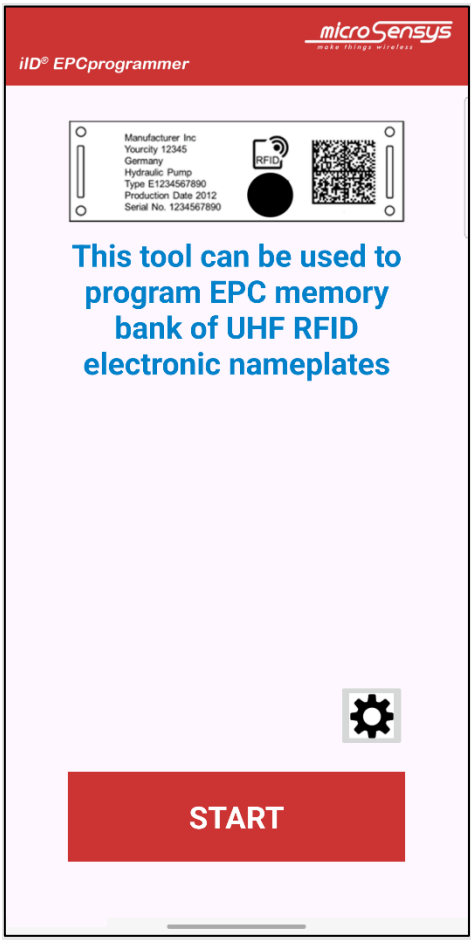


Figure 2 Start screen Android App

Enter your data for programming

Provide the contents to program into the transponder EPC manually using the keyboard and text input. Alternatively tap on the device icon  and scan the optical code containing compatible GS1 code and it will be converted to the translated EPC contents. After the EPC contents are present in the text input field, please check the correct content in the text field and tap on “Continue”.

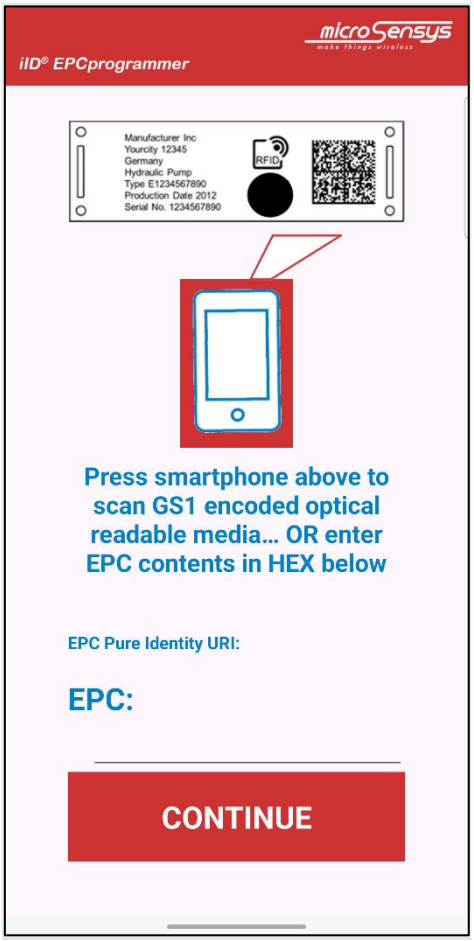


Figure 3: EPC text field without EPC

The app is searching for a connected reader. If the app doesn´t find a running Bluetooth connection with a compatible reader, then you get the error message “Not supported Reader”.

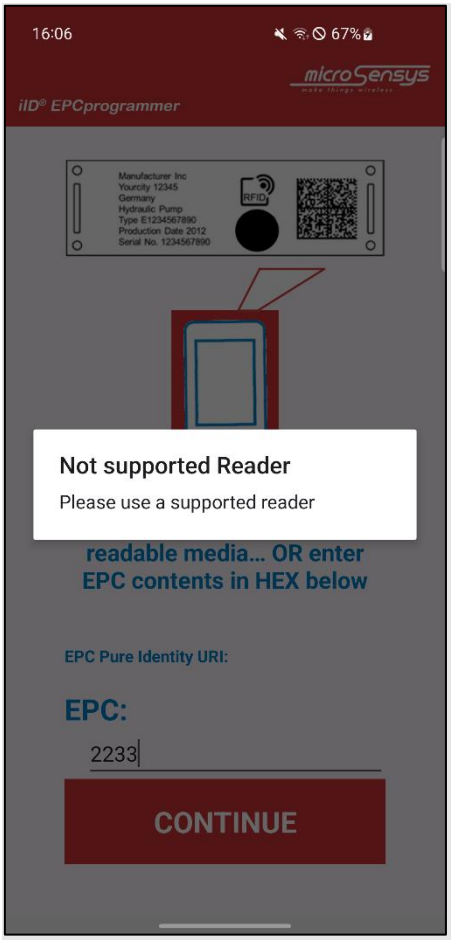


Figure 4: Info message of reader is not supported

In this case, please contact microsensys. The reader is not licensed for use with the iID® EPCprogrammer.

Programming transponders

To program a transponder please move your iID®contactless UHF RFID interface to the transponder to be programmed. The app is checking for a compatible RFID UHF transponder nearby. To trigger the writing process please press the SCAN Button on the reader.

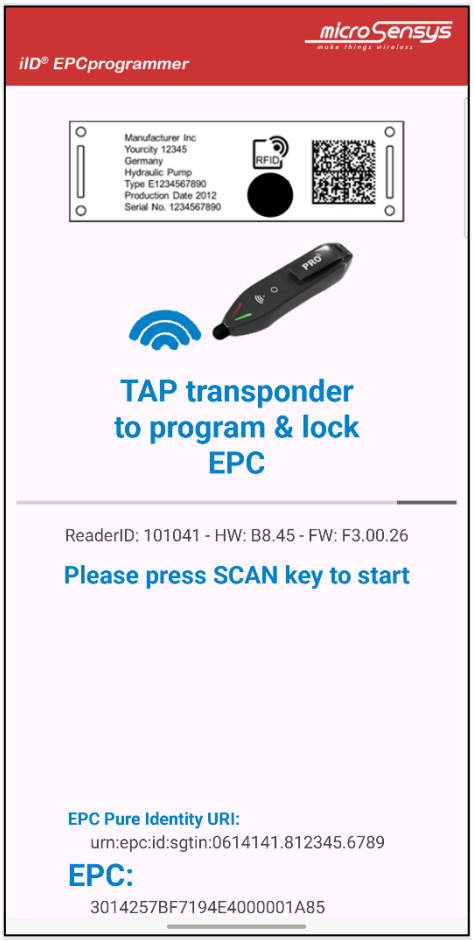


Figure 5: EPC writing process

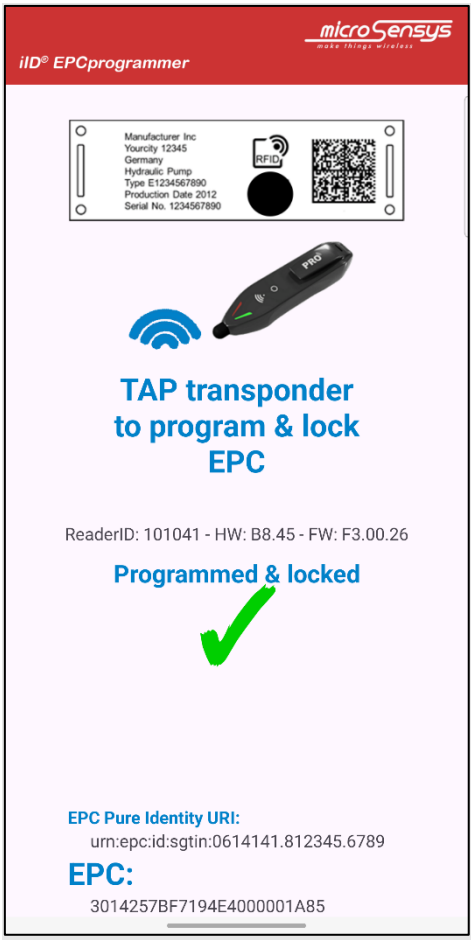


Figure 6: Written process was successful

After the transponder is found, the EPC is automatically written to the transponder and the contents are locked against write. You will get a feedback message “Programmed & locked”.

Please note that some features of the programming process can be configured on configuration file level. Please ask your system integrator for further details.

Do you have any questions? Contact us:

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