

User Guide

# mobiLink



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To comply with international software licensing terms, we offer the source files of open source software used in our products. For details see <https://opensource.softing.com/>

If you are interested in our source modifications and sources used, please contact: [info@softing.com](mailto:info@softing.com)

## Softing Industrial Automation GmbH

Richard-Reitzner-Allee 6  
85540 Haar / Germany  
<https://industrial.softing.com>

☎ + 49 89 4 56 56-340

💻 + 49 89 4 56 56-488

✉ [info.idn@softing.com](mailto:info.idn@softing.com)

[support.automation@softing.com](mailto:support.automation@softing.com)



Scan the QR code for more product information.

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# 1 About this guide

## 1.1 Read me first

This guide must be read carefully and fully understood by any person working with the mobiLink to ensure safe and proper use of the device. Softing does not assume any liability for damages due to improper installation or operation of this product.

This document is not warranted to be error-free. The information contained in this document is subject to change without prior notice. If you have any problems understanding the information and instructions in the guide, please report them to us in writing. To obtain the most current version of the hardware guide, visit the [Download Center](#) on our website.

## 1.2 Objective

This guide explains how to connect and start mobiLink and how to use the device to configure and maintain field devices over USB or Bluetooth with software applications supported on PCs, tablets or smartphones.

## 1.3 Target audience

This user guide has been written for experienced operation personnel and network specialists responsible for configuring and maintaining field devices including HART, FOUNDATION fieldbus and Profibus PA devices. Any person using a mobiLink must have read and fully understood the safety requirements and working instructions in this guide.

## 1.4 Typographic conventions

The following conventions are used throughout our product documentation:

Keys, buttons, menu items, commands and other elements involving user interaction are set in bold font and menu sequences are separated by an arrow

Open **Start** → **Control Panel** → **Programs**

Buttons from the user interface are enclosed in brackets and set to bold typeface

Press **[Start]** to start the application

Coding samples, file extracts and screen output is set in Courier font type

MaxDlsapAddressSupported=23

Filenames and directories are written in italic

Device description files are located in C:  
 \<Application name>\delivery\software  
 \Device Description files



### CAUTION

This symbol is used to indicate a potentially hazardous situation which, if not avoided, may result in minor to moderate damage or injury.



### Note

This symbol is used to call attention to notable information that should be followed during installation, use, or servicing of this device.



### Hint

This symbol is used when providing you with helpful user hints.

## 1.5 Document history

Document version	Modifications compared to previous version
1.00	Initial version
1.01	No changes to hardware version 1.00. Bluetooth certification added for Japan.
1.02	No changes to hardware version 1.00. Descriptions for software-based PROFIBUS PA functionality added.
1.30	New licensing, increased battery lifetime and Bluetooth Low Energy features added.
1.31	Hardware version changed from 1.00 to 1.10 for approval of explosion group IIC. See section <a href="#">Technical Data</a> <sup>23</sup> .
1.40	<a href="#">Licensing</a> <sup>19</sup> procedure changed.
1.32	Document version correction. Rollback to version number 1.3x and published as V1.32 for editorial reasons. <a href="#">FM approval</a> <sup>29</sup> and <a href="#">certificate</a> <sup>34</sup> added.
1.33	CAUTION notice added in Chapter 3.1 <a href="#">Explosion protection</a> <sup>11</sup> .

## 1.6 Related documentation

The following documentation describes the initial startup of your mobiLink and how to operate the device with the supported application software. See the [product website](#) for more info and downloads:

- *Getting Started* - Quick Guide V1.30 (shipped with boxed product)
- *Communication Configuration Tool* - User Guide V2.23
- *MOBILINKdtm* - User Guide V1.30

## 1.7 Document feedback

We would like to encourage you to provide feedback to help us improve the documentation. You can add your comments to the PDF file using the editing tool in Adobe Reader and email your feedback to [support.automation@softing.com](mailto:support.automation@softing.com).

If you prefer to send us your feedback only by email, please include the following information:

- name of document
- document version (as shown on cover page)
- page number

## 2 About mobiLink

mobiLink is a mobile field device communication designed to configure, manage or troubleshoot HART, FOUNDATION Fieldbus or PROFIBUS PA field devices on an externally-powered HART loop or fieldbus segment. It is suited for hazardous areas (explosive atmospheres) and can be connected by wired or wireless connection to PCs, tablets or smartphones. It can be operated with any common FDT frame application and configuration tool (e.g. *Communication Configuration Tool*). Instead of using an FDT frame application mobiLink can be used with a specific driver to connect to the Yokogawa Field device management tool *FieldMate*. In addition, mobiLink supports HART configuration and communication using the Smart Communicator from ProComSol for android and iOS devices.

### 2.1 Intended use

mobiLink is used to interface with network segments to configure, commission and maintain connected field devices (HART, FOUNDATION Fieldbus or PROFIBUS PA). mobiLink may be used both in full-scale field installations and offsite on the workbench. As mobiLink does not supply power to the connected devices, a powered HART loop or powered fieldbus segment is required. The device is certified for explosive atmospheres (see [Declaration of conformity](#) <sup>26</sup>) and can be connected to intrinsically safe field devices.



#### CAUTION

Do not connect your mobiLink directly to a main power supply.



#### Note

Avoid interference with a running system. Exercise utmost care when using mobiLink in operational plants. Ensure that working with mobiLink does not cause process disruption leading to damage, injury, or death. Follow all safety precautions and work procedures in this document!

### 2.2 Delivery and downloads

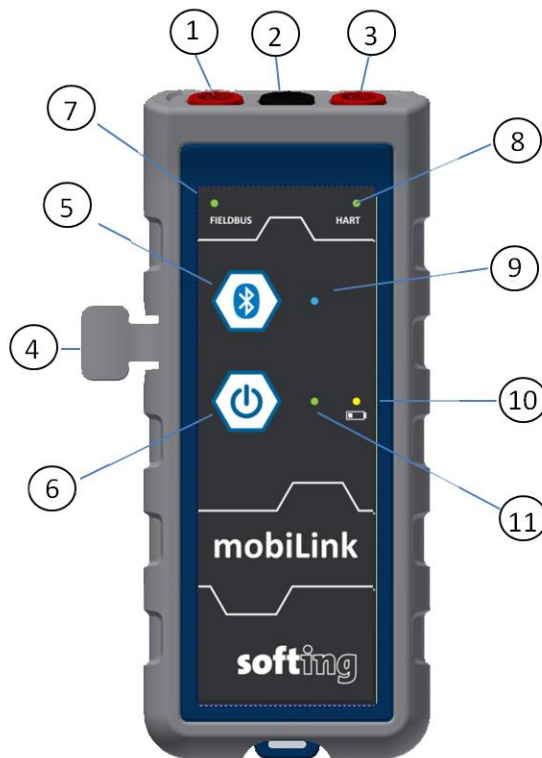
The following components are shipped in the product box:

- mobiLink unit
- USB cable (2m)
- set of testing cables red/black with clamp (1m)
- 3 AA batteries
- printed Getting Started Guide

The following components are available for download from the product page:

- mobiLink manager
- Communication Configuration Tool
- MOBILINKdtm
- PACTware

## 2.3 Functional description



Connector	Foundation Fieldbus	PROFIBUS PA	HART
(1) FIELDBUS red	DATA +	PA +	
(2) Common black	DATA -	PA -	HART N
(3) HART red			HART P

Connector / Button	Function
(4) USB	USB-C Type connector
(5) Bluetooth Button	Activate Visibility for Pairing
(6) Power On/Off Button	On/Off

LED	Function
(7) FIELDBUS	Indicates that the device is in fieldbus communication.
(8) HART	Indicates that the device is in HART communication.
(9) Bluetooth	On for 2 min = pairing mode; flashing every 2 secs = paired with device; flashing every second = communicating with device.
(10) Low battery	Flashing every 2 seconds = battery is low; flashing every 10 seconds = mobiLink is running in increased battery lifetime mode
(11) Power	Steady light = device is turned ON.



## 2.4 Power supply

The device requires batteries for operation. Before using mobiLink for the first time, open the battery compartment on the back of the device and insert the AA non-rechargeable batteries included in the delivery. See also Section [Replacing batteries](#)<sup>□10</sup>.

The battery power is monitored by the device. The yellow battery LED lights up when the battery power is low. Check the batteries before using the device. See [Preparing for startup](#)<sup>□14</sup> for details.



### Note

The battery lifetime is determined by the operation mode (USB or Bluetooth) and the ambient temperature (see [Technical Data](#)<sup>□23</sup>).

### 2.4.1 Battery safety and disposal instructions

Read the following instructions to avoid damage to your device in hazardous areas including injury or fire caused by leaking, overheating, explosion or erosion.

- Operate mobiLink only with the type of batteries specified in chapter [Technical Data](#)<sup>□23</sup>. If mobiLink is operated with batteries other than the type specified, the Ex certification becomes invalid.
- Replace the batteries as soon as battery LED starts flashing (every 2 seconds). Discharged batteries must be removed immediately from the device to prevent potential damage.
- Do not remove or install batteries and do not open the battery compartment within hazardous areas.
- Always replace all batteries at the same time using new and equal types. In different states of discharge there is a risk of voltage reversal with progressive risk of leakage or rupture.
- Store batteries in a dry place at normal room temperature. Do not store batteries near or on heat sources such as stoves or ovens.
- For longer times of storage it is recommended to remove batteries from the device to prevent possible damage through leaking batteries.
- Avoid mechanical or electrical abuse. Do not short circuit or install incorrectly. Batteries may explode, pyrolyse or vent if disassembled, crushed, recharged or exposed to high temperatures.
- Do not remove the battery label.
- Do not mix batteries from different manufactures.
- Do not mix new with used batteries.
- Discharged batteries must be removed immediately from mobiLink to prevent possible damage.

## 2.4.2 Battery lifetime

The battery lifetime is dependant on the mode of operation and estimated as follows:

Operation	Expected Battery Lifetime
HART over Bluetooth	> 45 hours
Fieldbus over Bluetooth	> 45 hours
HART over USB	> 6 days
Fieldbus over USB	> 1 year

When not connected mobiliLink switches after 5 minutes to energy saving mode (power LED is flashing very 2 seconds). It will remain in energy saving mode for 25 minutes and will turn itself off automatically if it is not connected.

## 2.4.3 Replacing batteries

Follow these steps to replace your mobiliLink batteries:

1. Switch off mobiliLink.
2. Disconnect the device from FIELDBUS or HART.
3. Unscrew the battery cover on the back.
4. Lift off the cover.
5. Remove the batteries.
6. Insert the replacement batteries as shown on the bottom of the battery compartment.



### CAUTION

Only use the type of batteries specified in chapter [Technical Data](#)<sup>23</sup>. If mobiliLink is operated with batteries other than the type specified, the Ex certification becomes invalid.

7. Ensure the batteries are correctly seated.
8. Replace the battery cover and make sure it is securely in place.
9. Screw the battery cover hand-tight. Do not overtighten!



## 3 Safety

mobiLink must be operated by qualified personnel only. The operator is responsible for the transportation, operation and maintenance of the product. Personal safety and protection of the equipment is ensure only if mobiLink is used as intended.

To ensure the safety of personnel and equipment, mobiLink must be used as intended by the manufacturer and in accordance with this manual. Local laws and regulations applicable to the use of this device must be observed.

### 3.1 Explosion protection

With mobiLink you can establish an intrinsically safe connection to HART, FOUNDATION Fieldbus or PROFIBUS PA devices. The device has been developed for use in hazardous areas, classified as Zone 1/Zone 2 (Gas-Ex Category 2G). It is approved for explosion group IIC and temperature Class T4 or higher. mobiLink may be connected to explosion protected, certified intrinsically safe circuits within Zone 0 classified explosive atmospheres.

Make sure that you use the device only in compliance with local safety requirements for installation of electrical equipment for use in hazardous areas associated with explosive atmosphere. In addition, please observe the following:

- Do not open mobiLink except the battery compartment.
- Do not open the battery compartment in explosive atmospheres.
- All information and notices in this document must be fully understood before using the product.
- The user has to make sure that the electrical parameters of mobiLink match the fieldbus installation.
- Make sure that the electrical parameters of mobiLink match the fieldbus installation.
- Do not use a USB connection to your host device inside hazardous areas.
- If mobiLink is or has been connected to non-intrinsically safe electrical circuits or outside the specified electrical parameters the, Ex approval for the mobiLink is void. mobiLink must not be used on intrinsically safe circuits afterwards. Any mobiLink that is or has been connected to non-intrinsically safe electrical circuits must be marked permanently in a clear way to prevent erroneous future use.
- Never use mobiLink with an open housing. Opening the housing invalidates the Ex approval.
- Make sure that the battery compartment is closed before you use mobiLink.
- Do not remove or insert batteries within Ex hazardous areas.
- Use only approved batteries. The use of any other battery type will invalidate the Ex approval and present a safety risk.
- If the notes stated in this excerpt are not observed or in case of inappropriate handling of the device, Softing reserves the right to waive any liability. In addition, the warranty on devices and spare parts will no longer apply.

- The details of this hardware guide have to be observed as have to be the conditions for use and the applicable details stated on the marking and product label.
- Any selection and operation of the device has to be done under consideration of the local requirements for electrical equipment intended for use within hazardous area/location. In the European Union the requirements of the EN 60079-14 must be strictly observed.
- Suitable precautions have to be taken to prevent unintended actuation or impairment of the device.
- The equipment is only approved for the intended use. In case of non-compliance, the warranty and Softing's liability does not longer apply!
- All connected electrical components have to be suitable for the respective intended use.
- The operator must ensure protection against lightning in compliance with local regulations.



**Note**

If mobiLink is connected to non-intrinsically safe electrical circuits or if the device is operated outside the specified electrical parameters, the Ex approval is no longer valid. In this case, the device may no longer be used on intrinsically safe circuits and must be clearly marked accordingly for the user to prevent erroneous use.



**CAUTION**

If mobiLink is used within within hazardous (Ex) areas, the device may only be connected to certified circuits. Outside hazardous areas, mobiLink may also be connected to non-intrinsically safe HART and fieldbus systems. It is the sole responsibility of the user to ensure that the maximum permissible voltage  $U_m = 30\text{ V}$  is never exceeded.

### **3.2 Warning of use**

During startup mobiLink tries to verify the operation mode against the connected fieldbus. If fieldbus terminals are connected to an operating 4-20 mA link this will compromise the analog process value. Make sure to use the correct connections and mode.

### **3.3 Transport, cleaning, maintenance**

#### **Transport:**

For transportation make sure that mobiLink is mechanically protected against inadvertent switching on. Otherwise remove batteries during transport.

#### **Cleaning:**

Periodically wipe the case with a damp cloth. Do not use abrasives or solvents. Do not clean mobiLink inside hazardous areas!

#### **Maintenance:**

mobiLink does not contain any serviceable parts. The device may only be modified and repaired by Softing. Opening the housing invalidates the Ex approval and renders the warranty null and void.

## 4 Installing and using mobiLink

### 4.1 Unpacking and inspecting mobiLink

mobiLink is shipped with the components listed in Chapter [Delivery and downloads](#)<sup>7</sup>.

#### Prior to use:

Before you install mobiLink check the integrity of the device as any of the following poses a safety risk:

- external damage to the housing
- damage to insulation of the test leads
- exposure to voltages exceeding the specified parameters
- incorrect storage of the unit
- damage sustained in transit
- incomplete or illegible certificates or labels



#### Note

If the device is damaged, contact Softing Support immediately.

### 4.2 Connection types

mobiLink can be connected via USB interface or via Bluetooth. The choice of connection is dependent on whether the device is used inside of hazardous areas or outside of hazardous areas.

Inside hazardous areas, the Bluetooth connection must be used. The use of the USB interface in hazardous areas is strictly prohibited. Always plug in the plastic cover over the USB for protection.

Outside hazardous areas, a USB connection may be used. It is permitted to connect intrinsically safe circuits to the Fieldbus and HART interface as long as intrinsically safe parameters are observed, see Chapter [Technical data](#)<sup>23</sup>.

### 4.3 Preparing for startup

Before using mobiLink in combination with the FOUNDATION Fieldbus or PROFIBUS PA protocol for the first time, make sure that your mobiLink is running the latest firmware version for the supported protocols. See the [mobiLink product site](#) for the latest firmware version and Chapter [Firmware update](#)<sup>21</sup> on how to install the firmware.

1. Set up a USB or Bluetooth connection before your start your mobiLink.

2. Ensure that the mobiLink device has batteries inserted. If not, insert batteries as described in chapter [Replacing batteries](#)<sup>10</sup>.
3. Press the power button for about 2 seconds to switch on mobiLink and wait 5 seconds until the battery check is performed. Check if the battery power is sufficient. Low battery power is indicated by a yellow flashing battery LED.

#### 4.3.1 USB connection

If you connect mobiLink to a host device over the USB port, mobiLink automatically starts USB communication. Conversely, if you switch on mobiLink without a wired USB connection, the device automatically activates wireless Bluetooth communication. It is not possible to use Bluetooth while the USB cable is connected. When disconnecting the USB cable during operation, mobiLink is powered off. Connecting the USB cable during Bluetooth operation will cause mobiLink to reboot.



#### CAUTION

The USB connection is not certified for use in explosive atmospheres.

#### 4.3.2 Bluetooth pairing

mobiLink supports the Bluetooth Low Energy (BLE) protocol known as Bluetooth Smart. In Bluetooth communication, mobiLink acts as peripheral device to your PC, smartphone or tablet and is visible at all times as *mL<SerialNumber>\_BLE* without having to press the Bluetooth button. Currently, only Bluetooth devices running on iOS (Apple) support BLE. Most Android devices typically still work with Bluetooth classic only. Pairing with Bluetooth classic is required only for the first time you are connecting to your PC, smartphone or tablet.

1. Press the power button for 2 seconds to switch on mobiLink.  
mobiLink will automatically recognize, pair and communicate with BLE peripherals.
2. Press the Bluetooth button for more than two seconds to pair with Bluetooth classic peripheral devices.  
The blue Bluetooth LED lights up. mobiLink is now visible to Bluetooth classic devices for 2 minutes and can be paired.
3. Start the Bluetooth scan function on your Bluetooth device. When a new device with the name mobiLink appears, followed by the serial number select mobiLink for pairing. It is not necessary to enter a PIN or passphrase.
4. Press the power button for about 2 seconds to switch off mobiLink.



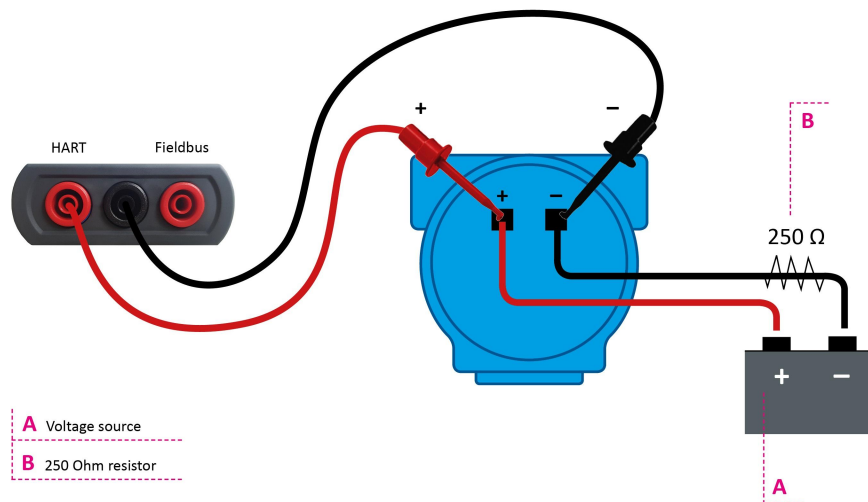
#### Note

When mobiLink is switched on and the device is not connected to a USB cable, the Bluetooth communication mode is activated by default. You do not need to press the Bluetooth button to establish communication with a paired host device.

## 4.4 Using mobiLink in a HART environment

HART communicates on a 4-20 mA current loop that powers the connected HART devices and indicates the primary process value. Ensure that you are connected to a powered HART loop as mobiLink does not power devices on the HART loop.

Before connecting mobiLink to intrinsically safe circuits, make sure that the electrical intrinsic safety parameters are observed (see Section [Technical Data](#) <sup>23</sup> for more details).



### Setting up a HART connection

1. Connect mobiLink to a HART environment as shown above.
2. Connect mobiLink to your PC (or smartphone or tablet) using Bluetooth or USB.
3. Press the power button for about 2 seconds to switch on mobiLink.
4. Start an application of your choice on your PC (or smartphone or tablet).
5. Select mobiLink as HART interface.



#### Note

The mode of operation is selected by the application used (MOBILINKdtm or ComConf). mobiLink checks if the electrical conditions on the interface match the selected mode. mobiLink must therefore be connected to a HART device or fieldbus segment before the application is started.

6. Verify that the HART LED is indicating HART mode.  
The LED is flashing every 2 seconds.



## 4.5 Using mobiLink in a fieldbus environment

FOUNDATION Fieldbus and PROFIBUS PA use the same physical layer on your mobiLink. The device checks the fieldbus voltage and the polarity during start-up. If a problem is detected, mobiLink will not set up a connection. Before connecting mobiLink to intrinsically safe circuits make sure that the electrical intrinsic safety parameters are observed (see Section [Technical Data](#) <sup>23</sup> for more details). As mobiLink does not power devices on a fieldbus segment, ensure that you are connected to a powered fieldbus segment.



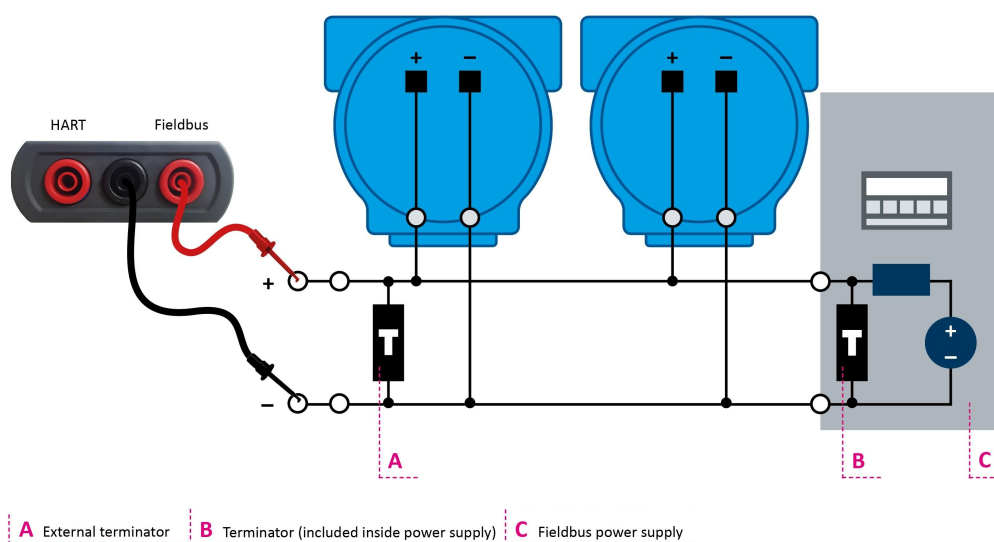
## CAUTION

mobiLink draws approximately 10 mA from the fieldbus segment when connected to your PC, smartphone or tablet. Ensure that the fieldbus power supply covers the additional amperage. If the power supply is running near its capacity, connecting the mobiLink may result in loss of communication.



### Note

If you intend to access field devices over FOUNDATION Fieldbus or PROFIBUS PA you will need to acquire a separate license. See Chapter [Licencing mobiLink for FF and PA](#)<sup>19</sup> for details.



## Setting up a fieldbus connection

1. Connect mobiLink to a fieldbus environment as shown above.
2. Connect mobiLink to your PC (or smartphone or tablet) using Bluetooth or USB.
3. Press the power button for about 2 seconds to switch on mobiLink.
4. Start an application of your choice on your PC (or smartphone or tablet).
5. Select mobiLink as fieldbus interface.


**Note**

The mode of operation is selected by the application used (MOBILINKdtm or ComConf). mobiLink checks if the electrical conditions on the interface match the selected mode. mobiLink must therefore be connected to a HART device or fieldbus segment before the application is started.

6. Verify that the FIELDBUS LED is indicating fieldbus mode.  
The LED is flashing every 2 seconds.

#### 4.5.1 Special notes for PROFIBUS PA

All PROFIBUS PA masters must use the same bus parameters per PA segment. mobiLink has been tested and approved in conjunction with the following PA Masters:

- Softing Gateways (pnGate PA/PB, mbGate PA)
- Siemens PA Link (IM-153)
- Pepperl + Fuchs SK3
- Pepperl + Fuchs Basic Segment Coupler

**Restrictions:**

The following PA masters are not able to communicate with mobiLink:

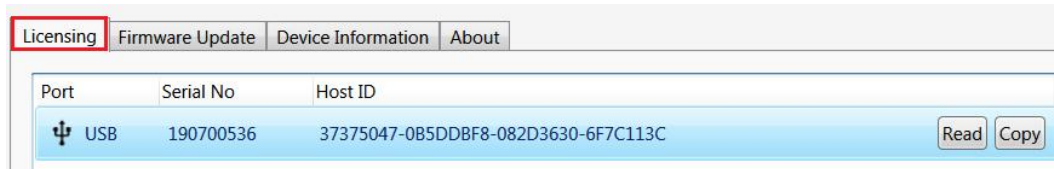
- Pepperl + Fuchs SK1 & SK2


For details on how to set the bus parameters see the corresponding **MOBILINKdtm** User Guide.

### 4.5.2 Licensing mobiLink for FF and PA

To use mobiLink for FOUNDATION Fieldbus and PROFIBUS PA you will need to activate a corresponding license. The license is optional and is not included in the standard delivery.

1. Open the mobiLink Manager you downloaded previously to read out the Host ID.
2. Select the **Licensing** tab.



3. Click **[Read]** for the mobiLink you wish to license. The Host ID is displayed.
4. Click **[Copy]**.
5. Go to the Softing Industrial website and click the  icon in the upper right corner to register yourself or select this [My Softing Portal](#) link. When you are registered and logged in you are directed to the **My Softing** page.
6. Click **[Register License]**.
7. Enter the **license key** from your License Certificate in the license key input field. You will have received the License Certificate when you purchased the FOUNDATION Fieldbus or PROFIBUS PA license.
8. Paste the host ID you copied in Step 4 into the **Host ID** field of the My Softing page.

#### Register License

Please enter your License Key and your Host ID. If you want to get notified in case of new releases, just check enable release info.

Activate License:

License Key


12345-ABCDE-67890-FGHIJ

Host ID

☐ Enable Release Info

Register License

Cancel

9. Click **[Register License]**.  
A license file is generated.
10. Click **[Download]** to save the license file to your PC.
11. Switch to the mobiLink Manager application.
12. Select the mobiLink with the corresponding Host ID.
13. Click the icon  to search for the license file on your PC and click **[Open]**.
14. Click **[Transfer License]**.  
The progress bar shows the installation status.  
You will be notified when the installation is completed.

## 4.6 Using mobiLink in explosive atmospheres

In explosive atmospheres mobiLink must connect to PCs, smartphones or tablets over Bluetooth. Outside of explosive atmospheres, mobiLink can be connected via USB interface.

mobiLink meets the intrinsic safety requirements for hazardous areas classified as Zone 1/ Zone 2 (Gas-Ex Category 2G). It can be connected to HART loops or fieldbus segments that are attached to equipment located in Zone 0/1/2 Group IIC locations.



### CAUTION

Always close the USB cover flap to protect the USB connector.



### CAUTION

Use only approved batteries. See [Technical Data](#)<sup>23</sup> for details.



### Note

You may connect intrinsically safe circuits to the Fieldbus and HART interface as long as mobiLink itself is used outside hazardous areas and within intrinsically safe parameters. For more details see section [Technical Data](#)<sup>23</sup>.



### WARNING

Connecting mobiLink to non-intrinsically safe electrical circuits or operating the product outside the specified electrical parameters will invalidate the Ex approval. In this case, mobiLink may no longer be used on intrinsically safe circuits and must be clearly marked accordingly for the user to prevent erroneous use.

## 4.7 Increasing the battery lifetime

You can increase the lifetime of your mobiLink battery by drawing 18 mA from the fieldbus instead of the standard 10 mA. Simply press the Bluetooth button for at least 3 seconds. The low battery LED will flash 2 or 3 times to indicate a change of power consumption from the fieldbus. When this mode is activated, the low battery LED will flash every 5 seconds.




### Note

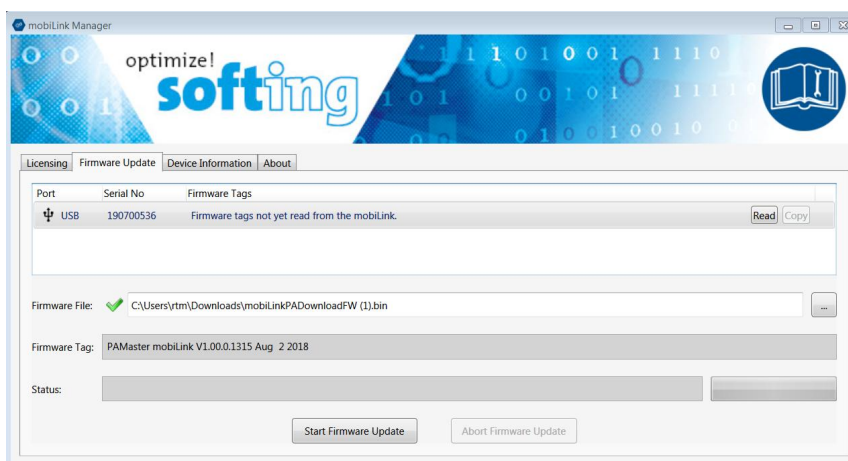
Remember that a higher power consumption of 18 mA may adversely affect the performance of the fieldbus segment to which your mobiLink is connected.

The battery lifetime can only be increased for fieldbus applications. As no power is drawn from a HART loop, mobiLink is fully dependant on the batteries for power.

## 4.8 Updating the firmware

For updating the mobiLink firmware you can choose among three different firmware files each addressing one of the supported protocols: HART, FOUNDATION Fieldbus and PROFIBUS PA.

1. Download the latest firmware version from the [mobiLink product site](#) to your PC. Each supported protocol has its own firmware version. So you will have to choose one or all of three files (HART, FF, PA) for download.
2. Start the mobiLink Manager on your PC.
3. Select the **Firmware Update** tab.
4. Select a mobiLink device.  
The window will display all devices to which you are connected.
5. Click the icon  to select the firmware file you just downloaded. The version of the firmware is shown in the Firmware Tag field.



6. Click **[Start Firmware Update]**.  
The progress bar in the bottom right corner indicates the update status. When the update is completed you will see the status message **Firmware update succeeded**.

## 5 Installing mobiLink

Before you can work with your mobiLink install either the MOBILINKdtm (for FDT frame applications) or the Communication Configuration Tool (ComConf). To update the mobiLink firmware and manage optional licenses you will also need to install the mobiLink Manager. You find all software applications for download from the [mobiLink product site](#).

For guidance on U.S. installations, see ANSI/ISA-RP12.06.01, Installation of Intrinsically Safe Systems for Hazardous (Classified) Locations. All installations must comply with the instructions in this user guide. Tampering and replacement with non-factory components may adversely affect the safe use of the system. Installations in the US must comply with the relevant requirements of the National Electrical Code® (ANSI/NFPA-70 (NEC®). Installations in Canada must comply with the relevant requirements of the Canadian Electrical Code, Part 1 (CSA C22.1) and CSA C22.2 No 213:2017 (or UL121201:2017), Section 9.2.1 (Hazardous location related marking) and Sections 18.2 to 18.5.



### Note

For installations in accordance with Canadian and US regulations see the safety-relevant [FM control drawing](#)<sup>25</sup> (also available for download from the [mobiLink product site](#)).

1. Download the latest MOBILINKdtm or Communication Configuration Tool software.
2. Double-click the setup file to start the installation.



### Note

You will need administration access rights to install the software. Start the setup as described above and authorize the installation with your access data in a UAC dialog. Make sure that "Softing AG" is mentioned in the UAC dialog as verified publisher. If you are logged on as administrator you will only need to confirm your choice.

3. Select the installation language.
4. Follow the install wizard instructions.



### Note

Contact [Softing Support](#) if an error occurs during installation.

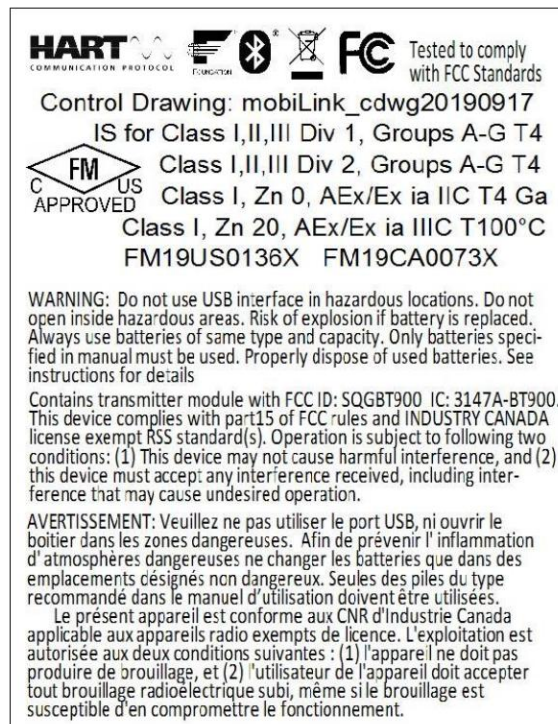
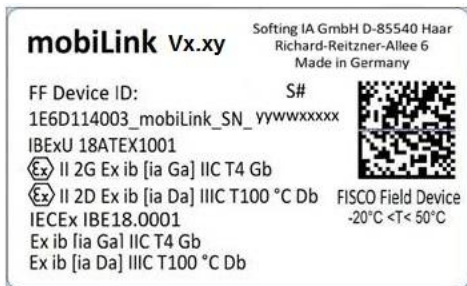
5. Repeat the download and installation steps for the mobiLink Manager.

## 6 Technical data

Fieldbus Interface (Foundation Fieldbus / PROFIBUS-PA)	
Connection	Polarized 4 mm banana type jacks (red /black)
Physical Layer	according to IEC 61158-2, Type 1: 31.25 Kbit/s, voltage mode
Nominal input current (Fieldbus)	10 mA (with $U_{\text{fieldbus}} > 9.0 \text{ V}$ ) 18 mA for increased battery lifetime (with $U_{\text{fieldbus}} > 9.5 \text{ V}$ )
Fieldbus Terminator	No Fieldbus Terminator included
Input Voltage for use in non hazardous area and non-intrinsically safe circuits	+9 ... +32 V
HART Interface	
Connection	4mm banana type jacks (red / black)
Physical Layer	HART FSK compliant modem
Intrinsic safety Fieldbus / HART	
Intrinsic safety parameters	According to IExU 18 ATEX 1001 or IECEx IBE 18.0001 Li negligible low, Ci 5nF EX ia IIC, $U_i = 30\text{V}$ FISCO
Isolation	1500 VDC between USB and fieldbus 1500 VDC between USB and HART
Bluetooth	
Bluetooth RF module	Laird BT900
BT mode	Dual Mode (Classic Bluetooth and Bluetooth Low Energy)
Output Power	+8 dBm (maximum)
Range	14 m
USB	
Speed	USB 2.0 Full Speed
Connector	USB Type C
Electrical	Non-intrinsically safe Do not use inside hazardous areas 5 V, 100 mA $U_m = 253 \text{ V}$ port sensible to ESD
Batteries	
Battery Type	Alkaline, IEC-LR6, nominal voltage 1.5 V. For use in hazardous areas. Energizer E91 or Duracell Procell MN1500. Batteries of other types or manufacturers will invalidate certification.

Environmental Conditions	
Ingress protection	IP54 (with USB covered with cap)
Operating temperature	-20 °C .. +50 °C
Storage	Store batteries in a dry place at normal room temperature.
Drop	1 m
Approvals, Markings	
ATEX	IBExU 18 ATEX 1001 Ex ib [ia Ga] IIC T4 Gb Ex ib [ia Da] IIIC T100 °C Db
IECEX	IECEX IBE 18.0001 Ex ib [ia Ga] IIC T4 Gb Ex ib [ia Da] IIIC T100 °C Db
FM	US: FM19US0136X IS for Class I, II, III, Division 1, Groups A, B, C, D, E, F, G T4 Class I, II, III, Division 2, Groups A, B, C, D, E, F, G T4 Class I, Zone 0, AEx/Ex ia IIC T4 Ga Class I, Zone 20, AEx/Ex ia IIIC T100°C Canada: FM19CA0073X

## Nameplate examples





A	11/08/2019	Drawing Number moblink_CDWG20191108	Rev: 0
		SHEET	1 of 1

## 7 Declaration of conformity

This product is in conformity with the provisions of the following European Directives.

- 2014/30/EU "EMC" The EMC Directive 2014/30/EU "Electromagnetic Compatibility" ensures that electrical and electronic equipment does not generate, or is not affected by, electromagnetic disturbance.
- 2014/34/EU "ATEX" The ATEX Directive 2014/34/EU "Atmosphères Explosibles" covers equipment and protective systems intended for use in potentially explosive atmospheres. The Directive defines the essential health and safety requirements and conformity assessment procedures to be applied before products are placed on the EU market.
- 2014/53/EU "RED" The RED 2014/53/EU "Radio Equipment Directive" ensures a Single Market for radio equipment by setting essential requirements for safety and health, electromagnetic compatibility, and the efficient use of the radio spectrum. It applies to all products using the radio frequency spectrum.
- 2011/65/EU "RoHS" The RoHS Directive 2011/65/EU "Restriction of Hazardous Substances" covers the use and the amount of certain hazardous substances that can be used in electrical and electronic equipment to prevent these substances from entering the production process and thereby keep them out of the waste stream.
- 2012/19/EU "WEEE" The WEEE Directive 2012/19/EU "Waste of electrical and electronic equipment" is closely linked to the Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS Directive). It ensures that customers can return there WEEE free of charge.

## EG-Konformitätserklärung EU Declaration of Conformity

**softing**

Wir  
We

**Softing Industrial Automation GmbH**  
**Richard-Reitzner-Allee 6**  
**D-85540 Haar**

erklären hiermit in alleiniger Verantwortung, dass das Produkt  
*declare under our sole responsibility that the product*

Modell / Typ  
*Model / Type*

**mobiLink V1.00, mobiLink V1.01, mobiLink V1.10**

mit den Anforderungen der folgenden Richtlinien übereinstimmt  
*complies with the requirements of the following directives:*

**ATEX-Richtlinie 2014/34/EU**

*ATEX directive 2014/34/EU*

**EMV Richtlinie 2014/30/EU**

*EMC directive 2014/30/EU*

**RED-Richtlinie 2014/53/EU**

*Radio Equipment Directive 2014/53/EU*

**ROHS-Richtlinie 2011/65/EU**

*ROHS directive 2011/165/EU*

Angewandte harmonisierte Normen  
*Applied harmonised standards:*

**EN 55032:2015, Class B**

**EN 61326-1:2013**

**EN 61000-6-2:2005/AC :2005**

**EN 60079-0:2018**

**EN 60079-11:2012**

**EN 300328 V2.1.1**

**EN 301489-1 V2.2.0**

**EN 301489-17 V3.2.0**

**EN 62311:2008**

**EN 62368-1:2014+AC:2015**

*Haar, 29.05.19*

Ort, Datum  
*Place, Date*

Template: V1.07

*G. F. 15*

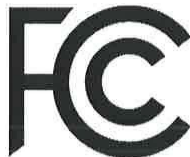
Geschäftsführer  
*Managing Director*

Seite 1 von 1  
*Page 1 of 1*

Version: 1.10

## SUPPLIER'S DECLARATION OF CONFORMITY

Per FCC Part 2 Section 2.1077(a)



**Responsible Party Name:** Softing Inc.  
**Address:** 7209 Chapman Highway  
Knoxville, TN 37920  
USA  
**Phone/Fax No:** +1.865.251-5252 / +1.865-579-4740  
**Product Name:** mobiLink

**This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.**

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING: Changes or modifications without the approval of manufacturer could void the user's authority to operate the equipment

**Representative Person's Name** Dr. Wolfgang Trier, CEO

**Date, Signature:**

*June 21<sup>st</sup>, 2019* 

## 7.1 Certification marks

mobiLink is an internationally certified product conforming with the required standards and regulations indicated by the following certification marks:



### CE

The CE marking indicates that the product conforms to EU health, safety and environmental requirements and that compliance with the above EU Directives has been made and can be requested from Softing Industrial Automation GmbH.



### FCC

The FCC mark (Federal Communications Commission) certifies radio frequency devices in the United States. It sets limits on intentional and unintentional electromagnetic radiation to protect the electromagnetic spectrum. mobiLink has been tested and found to comply with the limits for a Class B digital device, under part 15 of the FCC Rules.



### FM

The FM mark is authorized by FM (Factory Mutual) Approvals. In combination with the letters "C" and "US" it certifies that the product it marked has been evaluated in accordance with Canadian and U.S. standards and requirements.



### WEEE

The WEEE mark (Waste of Electrical and Electronic Equipment) indicates that the product including batteries must be disposed of separately from normal waste at the end of its operational lifetime. Packaging material and worn components shall be disposed of in compliance with national law and local waste-disposal regulations.



### ATEX

The ATEX/EX mark (Atmosphères Explosibles) indicates that the product is tested and certified for end-users in the European Union and meets the explosive atmosphere standards under ATEX Directive 2014/34/EU.



### HART

The HART mark indicates that this product support the HART communication protocol (Highway Addressable Remote Transducer) on 4-20mA loops.



### Fieldbus Foundation

The Fieldbus Foundation mark indicates that this product supports the Fieldbus specification for host devices.



### Bluetooth

This mark indicates that the product is certified for Bluetooth wireless communication.

## 7.2 Bluetooth certification

Devices operating with Bluetooth wireless technology must have an identification number assigned by the Federal Communications Commission (FCC), authorizing wireless devices for sale in the USA and an identification number assigned by Industry Canada (IC), authorizing wireless devices for sale in Canada .

mobiLink is certified for Bluetooth wireless communication in the following regions and countries:

- EU
- USA
- Canada
- Japan

### 7.2.1 Use in the United States of America

mobiLink contains a transmitter with FCC ID grantee code SQGBT900.

The device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- The device may not cause harmful interference.
- The device must accept any interference received, including interference that may cause undesired operation.

mobiLink complies with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### **7.2.2 Use in Canada**

mobiLink contains a transmitter with the IC identification 3147A-BT900.

#### **Industry Canada (IC) Warning statement:**

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

#### **IC Radiation Exposure Statement**

This EUT is compliance with SAR for general population/uncontrolled exposure limits in IC RSS-102 and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528.

### **7.2.3 Use in Japan**

The Bluetooth module type BT900-SA which is operated by mobiLink is approved for use in the Japanese market. The module has the certificate number 142-150156/AA/00.




<b>IBeXU Institut für Sicherheitstechnik GmbH</b> An-Institut der TU Bergakademie Freiberg																					
<b>Schedule</b>																					
<b>Certificate number</b>	<b>IBeXU18ATEX1001   Seite 1</b>																				
<b>Description of product</b>	<p>mobLink is a handheld battery-powered interface providing access to HART devices, Foundation Fieldbus devices or PROFIBUS PA devices from personal computers, tablet computers or smartphones via USB or Bluetooth connections.</p> <p>mobLink may be used in hazardous areas to configure and manage field devices. It may be connected to certified intrinsically safe fieldbus circuits during operation.</p> <p>According to FISCO, IEC 60078-11 annex G, it is a field device.</p> <p>The user has to make sure that the electrical parameters of the mobLink match the fieldbus installation.</p> <p>Safety relevant hint:</p> <p>USB must not be used inside hazardous areas.</p> <p><u>Technical data</u></p> <table> <tr> <td>Ambient temperature:</td><td>-20 °C to +50 °C</td></tr> <tr> <td>Ex-area:</td><td>zones 1, 21</td></tr> <tr> <td>Gas-classification:</td><td>IIC</td></tr> <tr> <td>Dust-classification:</td><td>IIIC</td></tr> <tr> <td>FISCO field device</td><td></td></tr> <tr> <td>Intrinsically safety ratings:</td><td>FISCO or Ex ia IIC, Ui = 30 V, Li negligible, Ci 5 nF</td></tr> </table> <p>non intrinsic safe interface      USB 2.0</p> <table> <tr> <td>U<sub>nom</sub></td><td>5 V</td></tr> <tr> <td>I<sub>sc</sub></td><td>100 mA</td></tr> <tr> <td>U<sub>in</sub></td><td>253 V</td></tr> </table> <p>Bluetooth:</p> <table> <tr> <td>RF power:</td><td>8 dbm / 7 mW</td></tr> </table> <p><i>Variations compared to issue 0 of this certificate:</i></p> <p><b>Variation 1</b>  A dissipative foil is used thus the device may be used in gas group IIC and the marking has been changed.</p> <p><b>Variation 2</b>  The device fulfils the requirements of EN IEC 60079-0:2018.</p> <p><b>Test report</b>  The test results are recorded in the confidential test report IB-19-3-0055 of 2019-05-08.  The test documents are part of the test report and they are listed there.</p> <p><b>Summary of the test results</b>  The device mentioned under [4] still complies with the requirements of explosion protection for Ex equipment of group II and category 2G or 2D in type of protection Intrinsic Safety "i".</p> <p><b>Specific conditions of use</b>  None</p> <p><b>Essential health and safety requirements</b>  In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item [9], the following are considered relevant to this product, and conformity is demonstrated in the test report:  None</p>	Ambient temperature:	-20 °C to +50 °C	Ex-area:	zones 1, 21	Gas-classification:	IIC	Dust-classification:	IIIC	FISCO field device		Intrinsically safety ratings:	FISCO or Ex ia IIC, Ui = 30 V, Li negligible, Ci 5 nF	U <sub>nom</sub>	5 V	I <sub>sc</sub>	100 mA	U <sub>in</sub>	253 V	RF power:	8 dbm / 7 mW
Ambient temperature:	-20 °C to +50 °C																				
Ex-area:	zones 1, 21																				
Gas-classification:	IIC																				
Dust-classification:	IIIC																				
FISCO field device																					
Intrinsically safety ratings:	FISCO or Ex ia IIC, Ui = 30 V, Li negligible, Ci 5 nF																				
U <sub>nom</sub>	5 V																				
I <sub>sc</sub>	100 mA																				
U <sub>in</sub>	253 V																				
RF power:	8 dbm / 7 mW																				

**IBExU Institut für Sicherheitstechnik GmbH**  
An-Institut der TU Bergakademie Freiberg

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[19] **Drawings and Documents**  
The documents are listed in the test report.

IBExU Institut für Sicherheitstechnik GmbH  
Fuchsmühlengeweg 7  
09599 Freiberg, GERMANY

By order  
  
Dipl.-Ing. (FH) Henker

Freiberg, 2019-05-09

FR106100 | 1

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IBExU\18\ATEX1009 | 1



7.4 IECEx certificate

For a full size PDF file of the IECEx Certificate of conformity go to [Downloads](#) on the mobilink product page or to <http://iecex.iec.ch> and enter "Softing" in the Name field of the search window.

**IECEx Certificate of Conformity**

INTERNATIONAL ELECTROTECHNICAL COMMISSION  
IEC Certification Scheme for Explosive Atmospheres  
For rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx IBE 18.0001      Issue No: 1      Certificate history:  
Status: **Current**      Issue No: 1 (2019-05-09)  
Date of Issue: **2019-05-09**      Page 1 of 4      Issue No: 0 (2018-04-16)

Applicant: **Softing Industrial Automation GmbH**  
Richard-Reitzner-Allee 6  
85540 Haar  
Germany

Equipment: **mobliLink**  
Optional accessory:

Type of Protection: **Intrinsic safety "i"**  
Marking: Ex ib [ia Ga] IIC T4 Gb  
Ex ib [ia Da] IIC T100 °C Db

Approved for issue on behalf of the IECEx  
Certification Body: Dipl.-Ing. Alexander Henker  
Position: Head of Certification Body  
Signature: *A. Henker*  
(for printed version)  
Date: **2019-05-09**

1. This certificate and schedule may only be reproduced in full.  
2. This certificate is not transferable and remains the property of the issuing body.  
3. The status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:  
IBEXU Institut für Sicherheitstechnik GmbH  
Certification Body  
Fuchsmühlweg 7  
95099 Freiberg  
Germany

**IBEXU**

**IECEx Certificate of Conformity**

Certificate No.: IECEx IBE 18.0001      Issue No: 1  
Date of Issue: **2019-05-09**      Page 2 of 4  
Manufacturer: **Softing Industrial Automation GmbH**  
Richard-Reitzner-Allee 6  
85540 Haar  
Germany

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard listed below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx-02 and Operational Documents as amended.

**STANDARDS:**  
The apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:  
**IEC 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0  
**IEC 60079-11:2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0  
This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.

**TEST & ASSESSMENT REPORTS:**  
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:  
Test Report:  
DE/IBEXTR18.0002/00      DE/IBEXTR18.0002/01  
Quality Assessment Report:  
DE/IBEXQAR11.0002/04

**IECEx Certificate of Conformity**

Certificate No.: IECEx IBE 18.0001      Issue No: 1  
Date of Issue: **2019-05-09**      Page 3 of 4  
**Schedule**

**EQUIPMENT:**  
Equipment and systems covered by this certificate are as follows:

mobliLink is a handheld battery-powered interface providing access to HART devices, Foundation Fieldbus devices or PROFIBUS PA devices from personal computers, tablet computers or smartphones via USB or Bluetooth connections.  
mobliLink may be used in hazardous areas to configure and manage field devices. It may be connected to certified intrinsically safe fieldbus circuits during operation.  
According to FISCO, IEC60079-11 annex G, it is a field device.  
The user has to ensure that the electrical parameters of the mobliLink match the fieldbus installation.  
Safety relevant hint:  
USB must not be used inside hazardous areas.

**Technical data**  
Ambient temperature: -20 °C to +50 °C  
non intrinsic safe interface:  
USB 2.0  
U<sub>nom</sub> 5 V  
I<sub>nom</sub> 100 mA  
U<sub>IEC</sub> 253 V

FISCO field device  
Intrinsically safety ratings:  
FISCO  
or  
Ex ia IIC, U<sub>i</sub> = 30 V, L<sub>i</sub> negligible, C<sub>i</sub> 5 nF

Bluetooth:  
RF power: 8 dBm / 7 mW

**SPECIFIC CONDITIONS OF USE: NO**

**IECEx Certificate of Conformity**

Certificate No.: IECEx IBE 18.0001      Issue No: 1  
Date of Issue: **2019-05-09**      Page 4 of 4

**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

The device complies with the requirements of IEC 60079-0, Ed. 7  
The foil on the front is dissipative, thus the device may be used in subdivision IC.



FM10US0136X per US Requirements

**CERTIFICATE OF CONFORMITY**

**1. HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**

**2. Certificate No:** FM19US0136X

**3. Equipment:** mobilink Handheld Interface  
**(Type Reference and Name)**

**4. Name of Listing Company:** Softing Industrial Automation GmbH

**5. Address of Listing Company:** Richard-Reitzner-Allee 8  
Haar 98540  
Germany

**6. The examination and test results are recorded in confidential report number:**  
PR453990 dated 11<sup>th</sup> December 2019

**7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:**  
FM Class 3600:2018, FM Class 3610:2018, FM Class 3616:2018, FM Class 3810:2018, ANSI/ISA 60079-0:2019, ANSI/UL 60079-11:2014 and ANSI/IEC 60529:2004

**8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.**

**9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.**

**10. Equipment Ratings:**  
Intrinsically Safe for Class I, II, III, Division 1, Groups A, B, C, D, E, F, and G; Intrinsically Safe for Class I, Zone 0, AEx ia IIC T4; Intrinsically safe for Zone 20, AEx ia IIC T100°C; Nonhazardous for Class I, II, III, Division 2, Groups A, B, C, D, E, F, and G; Temperature classification T4; hazardous (classified) locations in accordance with drawing CDWG20191108 with an ambient temperature rating of -20°C to +50°C.

**Certificate issued by:**  
*J.E. Marquardt*  
J.E. Marquardt  
VP, Manager - Electrical Systems

**11 December 2019**  
Date

To verify the availability of the Approved product, please refer to [www.sccsaonline.com](http://www.sccsaonline.com)

**THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE**

FM Approvals LLC, 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA  
T: +1 (781) 762 4300 F: +1 (781) 762 9375 E-mail: [information@fmapprovals.com](mailto:information@fmapprovals.com) [www.fmapprovals.com](http://www.fmapprovals.com)  
F 347 (Mar 16)

Page 1 of 3

**SCHEDULE**

US Certificate Of Conformity No: FM19US0136X

**11. The marking of the equipment shall include:**  
Class I, II, III Division 1, Groups A, B, C, D, E, F, G; T4 Ta = -20°C to +50°C  
Class I, Division 2, Groups A, B, C, D, E, F, G; T4 Ta = -20°C to +50°C  
Class I, Zone 0, AEx ia IIC T4 Ga Ta = -20°C to +50°C  
Zone 20, AEx ia IIC T100°C D8 Ta = -20°C to +50°C  
FISCO  
CDWG20191108

**12. Description of Equipment:**  
**General** - The mobilink is a handheld battery-powered interface providing access to HART devices, Foundation Fieldbus devices (FISCO) or PROFIBUS PA devices from personal Computers, tablet computers or smartphones via USB or Bluetooth connections. The interface is rated for use in an ambient temperature range of Ta = -20°C to +50°C.  
**mobilink HART, Foundation Fieldbus or PROFIBUS PA interface**  
HART  
UI < 30Vdc, Li = Negligible, Ci < 5 nF  
FISCO  
UI < 17.5Vdc, Li < 10 uH, Ci < 5 nF

**13. Specific Conditions of Use:**  
1. Do not use the USB interface in hazardous (classified) locations.  
2. Use only Duracell MN1500 or Energizer E91 cells.

**14. Test and Assessment Procedure and Conditions:**  
This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

**15. Schedule Drawings**  
A copy of the technical documentation has been kept by FM Approvals.

**16. Certificate History**

F 347 (Mar 16)

Page 2 of 3

**SCHEDULE**

US Certificate Of Conformity No: FM19US0136X

Details of the supplements to this certificate are described below:

Date	Description
11 <sup>th</sup> December 2019	Original Issue

F 347 (Mar 16)

Page 3 of 3

**Softing Industrial Automation GmbH**

Richard-Reitzner-Allee 6  
85540 Haar / Germany  
<https://industrial.softing.com>



+ 49 89 45 656-340



+ 49 89 45 656-488



[info.idn@softing.com](mailto:info.idn@softing.com)

