

# Wireless energy transfer and data communication

Welcome to the future.

With the extensive and optimally matching product portfolio, FRIWO acts as system supplier for inductive charging technology and offers complete solutions from a single source:

- water- and dust-proof energy transfer
- power Transfer up to 150 W
- up to 10 mm distance between transmitter und receiver
- up to 90% efficiency
- optional data transfer: up to 1 Mbit/s half-duplex

FRIWO's new inductive charging demonstrator (picture on the back) illustrates many elements of a possible system solution: power supply, inductive charging technology with data communication, battery solution and intelligent battery management. All of this is embedded in a mobile monitor with detachable stand which also serves as a contactless charging station. The monitor communicates intelligently with user and charger and provides all sorts of information on charging process and battery status.

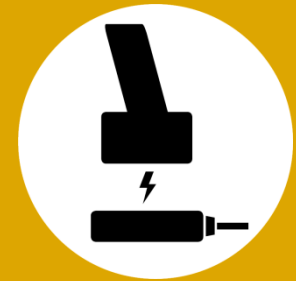
The demonstrator's operating principle can be found on the inner pages of this flyer.



Will contactless energy and data transmission also boost your product?

You are welcome to sit down with us to discuss approaches and applications:

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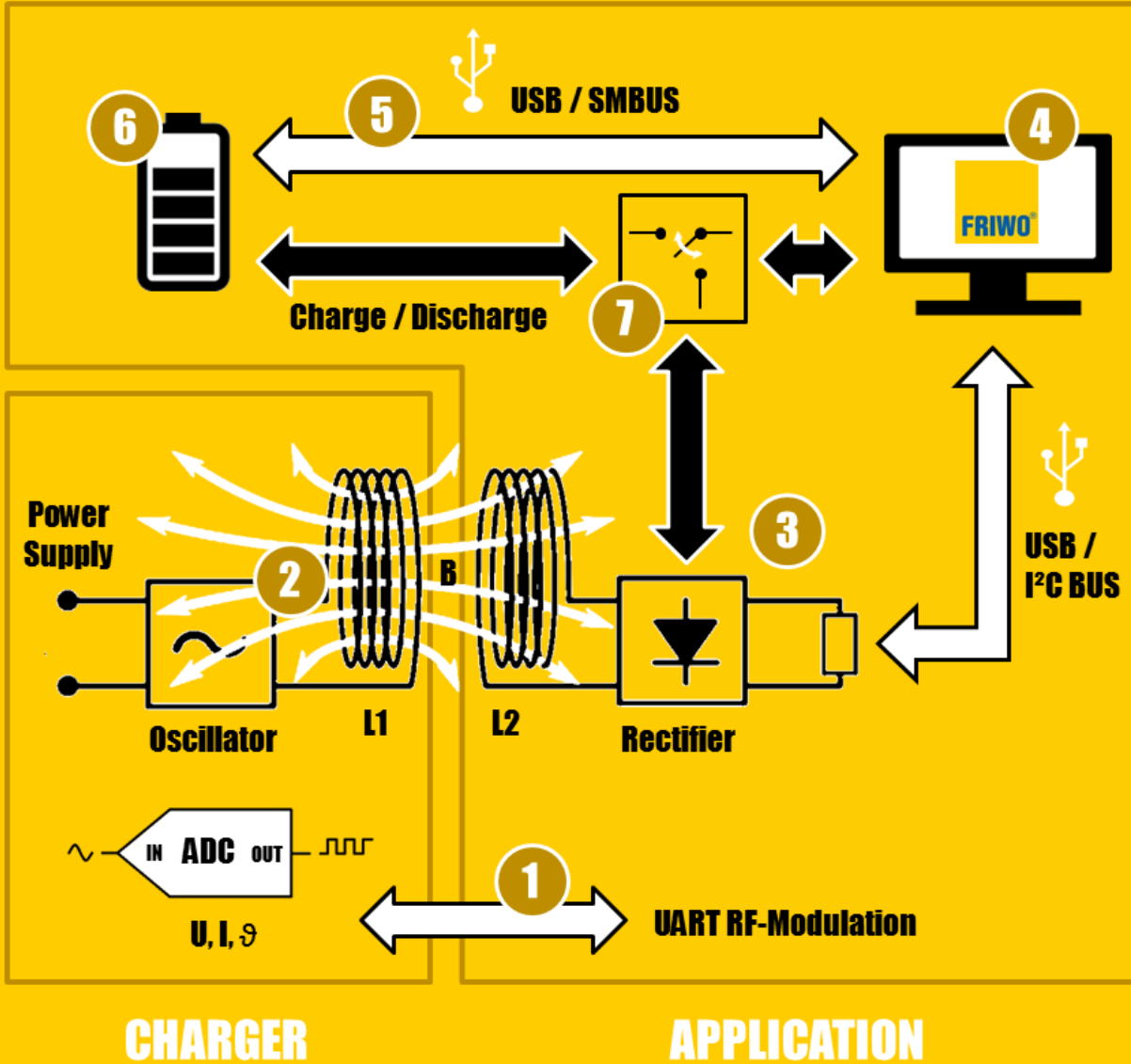


**FRIWO**  
**Inductive Technology**



# INDUCTIVE CHARGING DEMONSTRATOR

## WIRELESS DATA + ENERGY TRANSFER



- 1** **Wireless Communication**
  - UART (half-duplex / 2MBit)
  - Controlling by  $\mu$ C
  - External recognition
- 2** **Energy Transfer**
  - Core diameter 47mm
  - 60W transmission
- 3** **Voltage Rectification**
- 4** **Panel PC**
  - TI Battery Management Studio
  - LabView application
- 5** **USB / SM-BUS Interface Adapter**
- 6** **FRIWO Battery Pack FB4S2P18650-28**
  - Smart battery with SMBUS
  - 14.6V 5700mAh
- 7** **Charge Interface**
  - 16.8V 1700mA
  - Automatic system power selection
  - Dynamic power management