SELVE

Engineering in motion

GB

USB-RF Gateway

(Art. No. 297792)

GB **Operating Instructions**

Please keep these Instructions in a safe place!

iveo **commeo**

Safety instructions

Warning!

- Use in dry rooms only.
- For use with unmodified original SELVE parts only.
- Do not open the device – it does not contain any components that need to be serviced.
- Keep persons away from the systems operating range.
- An automatically controlled roller shutter or sun protection system can move unexpectedly. Therefore, never place objects in the travel range.
- Keep children and untrained persons away from the control.
- Please observe the instructions for the roller shutter, sun protection system, motor and control.
- Automatic and manual movement when frozen and during storms can seriously damage the system.
- Always observe country-specific regulations.
- Never use the device if the system or parts of the system are damaged. Follow the instructions of all parts.

Information for Radio operation

SELVE wireless technologies **commeo** and **iveo** use a legal permitted radio band. Because of this interferences caused by e.g. devices of other manufacturers cannot be excluded.

Interference can also be caused by other nearby operated electrical devices.

The range of radio transmissions are highly dependent on the local structures and the environmental influences in the vicinity.

Technical specifications

Power supply:	5 VDC (USB powered)
Power consumption:	< 100 mA
Typ. Radio range (outdoor):	up to 300 m
Typ. Radio range (indoor):	up to 25 m
Radio frequencies:	868,1 MHz (commeo) 868,3 MHz (iveo)
Max. transmit power:	10 mW
Ambient temperature:	0 °C to +55 °C
Storage temperature:	-40 °C to +85 °C
Interface:	USB 2.0 (Type A)
Degree of protection:	IP 20
Dimensions (without antenna):	23 mm x 70 mm x 9 mm
Weight:	13 g

Subject to technical alterations.

Intended usage

The SELVE USB-RF gateway enables the controlling of SELVE bidirectional radio system **commeo** devices. Further the parallel operation of SELVE unidirectional radio system **iveo** devices is possible.

A standard XML communication protocol allows a quick and easy integration into custom applications and includes the whole functionality of the SELVE radio technologies.

All site specific state and configuration data is administrated by the USB-RF gateway and available at any time.

Product features

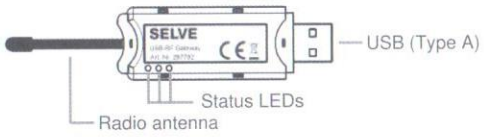
The gateway supports following features:

- Administration, operation and status reporting of up to 64 **commeo** receiver (motors, actuators, etc.).
- Administration of up to 32 user-defined **commeo** groups for quick group operations.
- Integration of up to 8 **commeo** sensors for sensor data acquisition in customized applications.
- Integration of up to 63 **commeo** remote control channels for application control.
- Up to 8 sensor simulation channels are offered to integrate external sensors in the **commeo** system. The external sensor data is controlled by the application.
- Administration of up to 64 **iveo** radio channels for single or group operation of **iveo** receivers.

Development support

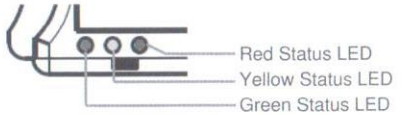
For application development, the interface description of the USB-RF gateway can be downloaded from www.selve.de **for free**.
The software tool "SELVE USB-RF Gateway" can be used as a developers guide and ensures a rapid integration of the gateway into custom application. Further this software allows full configuration and operation of the USB-RF gateway. The tool is downloadable from www.selve.de.

Device overview



USB (Type A):	Standard USB interface for connection to custom application (e.g. SELVE home server).
Status LEDs:	The three LEDs display current messages and internal states. The LEDs can be switched off within the settings of the gateway to allow normal operation without LED signals.
Radio antenna:	Antenna for optimized radio characteristics of the USB-RF gateway. **(Don't cut or extend the antenna!)**

LED signalization



LED Signals during Startup / update:

Red LED is on:	Signals an ongoing firmware update or that the last update was incomplete. In this case the normal operation is not started.
Yellow LED is on:	The start-up phase of the gateway runs. In this state all device values are updated.

LED signals during normal operation:

*Green LED is on:	The start-up is finished and the gateway is in normal operation.
*Green LED flashes:	Signals a special state from a connected **commeo** receiver, like motor, actuator, etc. (e.g. sensor lost signal, overload, obstacle, etc.).
*Red LED pulses:	A **commeo** or **iveo** radio telegram has been sent by the gateway.
*Yellow LED pulses:	A valid **commeo** radio telegram has been received by the gateway.

(*) LED states which are marked with * can be switched off within the settings of the gateway.

USB communication

The USB connection can be established by a virtual COM port or directly via USB with the corresponding driver.

Communication parameters:

USB controller:	FTDI FT234XD (USB 2.0) www.ftdichip.com
USB driver support:	FTDI provides driver for: Windows, MAC, Linux, Android
COM Port Baud Rate:	115.200 baud
COM Port Data:	8 Bit
COM Port Parity:	none
COM Port Stop:	1 Bit
Protocol:	via SELVE XML specification www.selve.de

General information

Instructions for disposal

Do not dispose old devices in the household waste! The device must be disposed in compliance with the laws and standards of the country in which it is operated!

The device contains electrical components that must be disposed as electronic waste. The enclosure is made from recyclable plastic.

Conformity declaration

CE SELVE herewith declares that the USB-RF Gateway is in compliance with the fundamental requirements and other relevant provisions of RED Directive 2014/53/EU.

The declaration of conformity can be seen at www.selve.de

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Contact

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