

# Operating Instructions & Datasheet

## emoswitch-wireless

**EMO Systems** develops and manufactures standard and customised footswitches, both wired and wireless models, in single and double-pedal designs. The footswitches meet the highest standards of safety, ergonomics and design. The switches are robust, waterproof and incredibly flat. Footswitches are constructed from materials that resist standard disinfection and cleaning agents.



### Included in Delivery

1 x wireless footswitch  
1 x wireless USB receiver

### First Usage

The emoswitch footswitch functions as a standard HID keyboard, so there are no drivers that need to be installed – the emoswitch is ready for use. The battery in the wireless footswitch is already factory-fitted.

Plug the wireless USB receiver into a free USB port in your computer or USB host device. You can now check the successful operation of the devices by pressing and releasing the pedal – an LED on the USB receiver will briefly flash every time the pedal is pressed. The footswitch can now be positioned and used up to 10 meters from the USB receiver.

### Functionality

A unique, 48-bit code is assigned to each emoswitch footswitch, which completely prevents erroneous triggering by other emoswitches or other wireless signals. The corresponding keyboard button combination for each footswitch can be modified by using a software tool, which can be downloaded for free from the emoswitch page on our website.

The wireless footswitch is powered by an inbuilt 3-volt lithium battery. Because the wireless footswitch only transmits a brief signal when the pedal is pressed, it is expected that the battery life will be dependent on usage, typically five years. Generally speaking, battery exchanges will not be required, however EMO Systems GmbH will perform this service when necessary. The USB receiver indicates a low battery warning by continuously flashing its LED.

### Security Advice

**The emoswitch-wireless is not suitable for industrial applications which require redundant safety circuits (e.g. crane systems, laser applications etc.).**

### Client-Specific Options

There are a number of options with which the basic model can easily be adapted to your needs. The housing is milled from high-quality aluminium, which is anodized naturally or in color. Baseplates and foot pedals are made of stainless steel and are also available with various surface finishes.

Switching functions can be designated via laser or machine engraving, colour-coding, or adhesive decals.

We gladly answer all your questions personally;  
please feel free to contact us via telephone:  
**+49 . 30 . 4000 475 – 80**

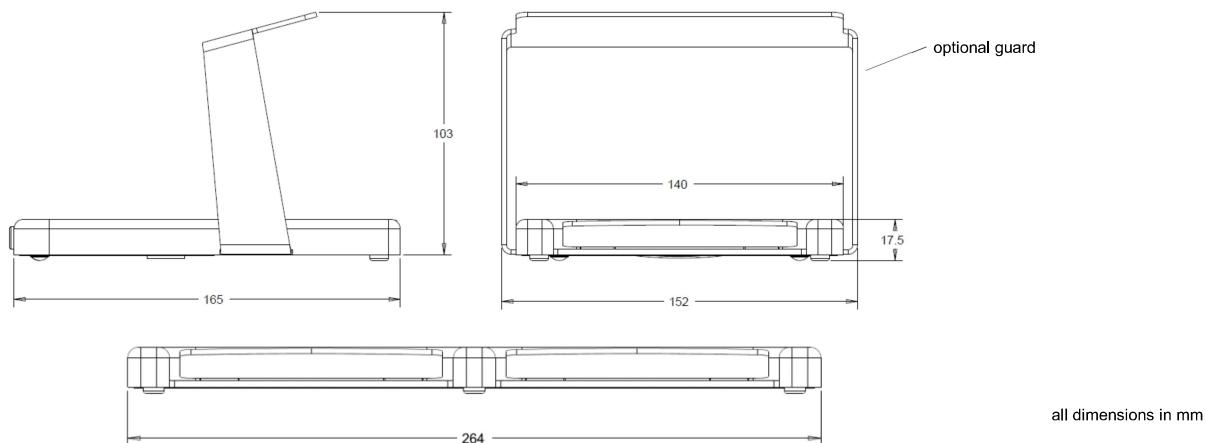
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## Technical Data:

Operating Frequency	ISM Band 2.475 GHz (Ch. 25) IEEE 802.15.4™ Compliant RF Transceiver
International Approvals	Radio Regulation Certification for United States (FCC), Canada (IC) and Europe (ETSI)
Operating Range	~ 10 m*
Internal Battery	3 V Lithium CR2450, 560 mAh; Service Life dependent on usage, typ. 5 years
HF Output	+0 dBm
USB Standard	USB 2.0 and above
Ingress Protection [Housing footswitch]	IP65
Weight:	
emoswitch-single	739 g
emoswitch-single-guarded	942 g
emoswitch-double	1484 g

\*The range of the radio link may vary depending on the environment. Other radio transmissions in the 2.4 GHz range may overlap and interfere with the transmission. Obstacles such as metal objects may attenuate or deflect the signal.



all dimensions in mm

## Features

- Natural anodised surface
- Housing cover, foot pedals and screw fixings made of stainless steel
- All seals made of EPDM rubber. Resistant to common disinfectants and cleaners
- Microswitches with molded connections. Service life: 500,000 switching cycles

## Classification:

Manufacturer	EMO Systems GmbH
Company Headquarters	Berlin, Deutschland
Article Numbers:	
emoswitch-single	A10085
emoswitch-single-guarded	A10301
emoswitch-double	A10092
Operating Conditions:	
Temperature	1°C to 45°C
Humidity	10% to 90% (non-condensing)
Air Pressure	860 hPa to 1060 hPa
Storage and Transportation:	
Temperature	-25°C to 70°C
Humidity	10% to 90% (non-condensing)
Air Pressure	600 hPa to 1060 hPa