

Operating Instructions & Datasheet

emoswitch

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.



Included in Delivery

- 1 × wireless footswitch
- 1 × 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 metres from the USB receiver.

Functionality

Each pedal operates one or two microswitches with factory-adjustable predefined switching points. As a result, two-stage or self-monitoring circuits can be implemented.

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 exceed 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.

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 or optionally powder-coated. 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.

Footswitches are constructed from materials that resist standard disinfection and cleaning agents.

Colour-coding – as required within the field of high-frequency surgery applications – is achieved through coloured powder coating.

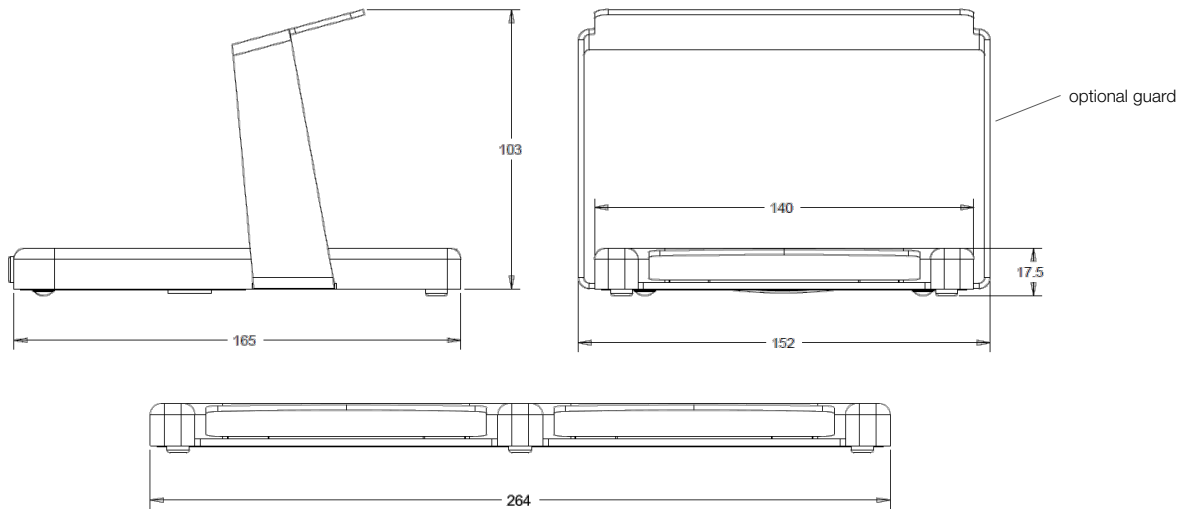
We gladly answer all your questions personally;
please feel free to contact us via telephone:
+49 . 30 . 4000 475 – 80

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© 2018 EMO Systems GmbH
Rungestr. 19
10179 Berlin
info@emosystems.de
Tel: +49 . 30 . 4000 475 - 80
Fax: +49 . 30 . 4000 475 - 90

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	Typically up to 10 m
Internal Battery	3 V Lithium CR2450, 560 mAh; Service Life > 5 years
HF Output	+0 dBm
USB Standard	USB 1.0 and above



all dimensions in mm

Features

- Ingress protection up to IP65
- 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	A10081
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 80°C
Humidity	10% to 90% (non-condensing)
Air Pressure	600 hPa to 1060 hPa
Weight:	
emoswitch-single	739 g
emoswitch-single-guarded	942 g
emoswitch-double	1484 g