

13.04.2017

RE: Operational Description
Applicant: Mirka Ltd
IC: 22379-HVX
Model numbers: DEROS 650X, DEROS 625X, DEROS 550X,
DEROS 680X, DEOS 343X, DEOS 353X, DEOS 383X

To Whom It May Concern:

Below follows a brief description of the radio equipment covered by this certification.

Device:

The devices covered by this application are mains operated electrical sanders with brushless motor control. As an additional feature, the devices are equipped with Bluetooth low energy technology.

Bluetooth low energy is implemented on the PCB using the nRF8001 chip from Nordic Semiconductor. The antenna of the system is an onboard trace antenna (effectively a quarter-wave monopole antenna).

The characteristics of the radio are transferred to the chip when the radio is activated. More precisely, the radio application stored in the MCU memory is transferred to the nRF8001 chip in a volatile form during the setup phase.

Activating the radio:

The default way of activating the radio is to hold the plus button pressed while turning the sander on (pressing the on/off button). When the radio is configured, a green LED is lit as an indication of this.

Application and data:

The radio is used for retrieving internal data such as usage time and current consumption. It is also possible to configure the product, e.g. setting manufacturing data such as serial number and device name.

The main purpose of radio is to make it possible to access the vibration data that the device calculates. An application for this is available (myMirka), but currently only in Europe.

Sincerely,


Tomas Södergård
Development Engineer
Mirka Ltd