


5 Switching ON/OFF the Instrument

The MR instrument can have the following operating states:

Operating State	Description
System OFF	The entire instrument electronic is deactivated. The MR instrument is not ready for use. It cannot be switched on by the ParaVision software. Magnet water cooling circuit and magnet refrigerator are active. <ul style="list-style-type: none"> Use this operation status, when the MR instrument is not used for a long period of time, e. g. during holiday.
STAND-BY	Same as System OFF but communication and line power control is operational so that the instrument can be switched on by the ParaVision software. In addition, the water cooling of the gradient coil is operational to maintain thermally stable condition within the magnet bore. <ul style="list-style-type: none"> Use this operation status, when the MR instrument is not used for a short (manageable) period of time, e. g. overnight or during the week end.
System ON	The entire instrument electronic is active. The MR instrument is ready for use.

5.1 Changing the Operating State (Remote Electronic Switch)

Change the operating state of the instrument at the Remote Electronic Switch as follows:

1	Get the <i>ParaVision</i> workplace ready of use and start <i>ParaVision</i> .	
2		Switch System ON: <ul style="list-style-type: none"> Turn the rotary switch (1) clockwise in ON position. Press the ON button (3) briefly and wait until the signal light lights up green permanently. <ul style="list-style-type: none"> The instrument is now ready for use.
3		Switch System to STAND-BY: <ul style="list-style-type: none"> Press the STAND-BY button (2) briefly and wait until the signal light at the ON button (3) changes from green to orange. <ul style="list-style-type: none"> The instrument is deactivated and not ready for use (stand-by). <p>Note: You only need to press the ON button (3) briefly again to switch back to the operating state »System ON«.</p>
4	Switch System OFF: Turn the rotary switch (1) counter-clockwise in OFF position.	

You can switch interactively between the operating states STAND-BY and ON using the *ParaVision* software. Proceed as follows:

- ▶ Click the ON/OFF button (1) in the *ParaVision* control bar to switch between STAND-BY and the operating state ON.

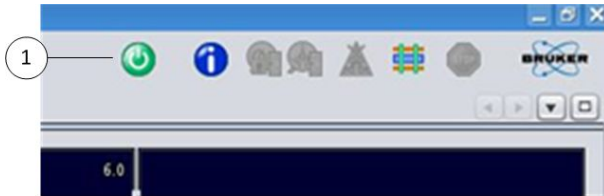


Figure 5.1: ON/OFF button in the *ParaVision* control bar.

5.2 Electric Emergency (Remote Electronic Switch)

In case of an electric emergency, for example electric shock or short circuit, proceed as follows to put the instrument out of operation:

- ▶ Turn the rotary switch (1) at the Remote Electronic Switch counter-clockwise in OFF position.
 - ▶ The instrument is powered off immediately.

NOTICE

The magnetic field and the supervision of the magnet remains ON when switching the MR Instrument OFF.

1. The Electronic ON/OFF Switch (Remote Electronic Switch) switches off all electronics but the magnetic field, the water cooling circuit of the magnet and the magnet supervision.
 - ▶ In case of emergency with regard to the strong magnetic field, use the [Magnet Emergency Quench Button](#) [▶ 20].

Further information on the different ON/OFF switches, see chapter [Safety](#) [▶ 15].