

RF-Relay Switching Unit – RSU

DC...12.4 GHz (up to 40 GHz optional)



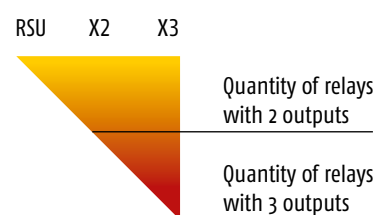
Main characteristics:

- Up to 4 pcs. Coax-Relays
- 1 input to 2 or 3 outputs
- Manual or remote-controlled
- USB, RS232 and GPIB interface
- Easy integration in test systems
- For RF- and EMC testing

Description

The RSU Relay Switching Unit is applicable for all fields of RF- and EMC measurements to switch (manual or remote-controlled) from one input to 2 or 3 outputs. Typical applications in measuring systems are changeover switching between different amplifiers, antennas or power meters. This does also prevent circuit faults due to wrong cabling. By means of a selector switch on the front panel of the RSU it is possible to work in manual mode or remote-control mode via the RS232, USB or GPIB interface. The input/output connectors of the relays are installed on the rear panel of the RSU, this allows an easy cabling when or where the RSU is mounted into a 19"-rack. A RSU can be equipped with a maximum of 4 relays with 2 or 3 outputs. The quantity of relays with 2 or respectively 3 outputs is variable. The delivery includes a Windows software for easy remote-controlled applications. However for extensive systems it is recommended to integrate the RSU driver into the system control software. The easy to follow commands for RS232 and GPIB interfaces are listed in the user manual.

Definition of the relay assembly:



RSU 2223 = 2 relays with 2 outputs
and 2 relays with 3 outputs

Technical specifications	RSU			
Frequency range	DC to 12.4 GHz (up to 40 GHz optional)			
	DC...1 GHz	1 GHz...5 GHz	5 GHz...10 GHz	10 GHz...12.4 GHz
VSWR	≤ 1.04	≤ 1.14	≤ 1.3	≤ 1.5
Isolation	≥ 90 dB	≥ 80 dB	≥ 70 dB	≥ 70 dB
Insertion loss	≤ 0.05 dB	≤ 0.1 dB	≤ 0.2 dB	≤ 0.3 dB
Max. power input	≤ 1.00 kW	≤ 0.44 kW	≤ 0.31 kW	≤ 0.28 kW
Impedance	50 Ω			
RF-connectors / Relays	N-female			
Switching time	≤ 60 ms			
Number of operations	Max. 10/Minute			
Operating temperature	+10 °C ... +40 °C			
Max. humidity	< 90 %			
Cabinet	19"-subrack or desktop case			
Dimensions (D x W x H)	435.5 x 448.9 x 132.55 mm			
Weight	7.6 kg			