



ROHDE & SCHWARZ

PSU

RF RELAY MATRIX

from DC to 6 GHz

for IEC-bus systems



- Six independent 60- Ω coaxial relays, low reflection
- RF and pulse applications
- Easy to operate, LED indication
- IEC-bus programming

RF RELAY MATRIX PSU

Characteristics and Uses

Six independent, isolated coaxial relays ensure high flexibility of this RF Relay Matrix PSU: six separate coaxial switches or one 1-out-of-4 switch and three separate switches or two separate 1-out-of-4 switches. The main application is manual and automatic, high-precision routing of RF signals in IEC-bus test systems (switching of generators, counters, indicators, attenuators, etc.).

The relays 1 to 3 with 50-Ω N sockets on the front panel feature excellent RF characteristics at frequencies up to 6 GHz and are also suitable for pulses with short rise times. The relays 4 to 6 with 50-Ω BNC sockets on the rear panel are suitable for frequencies up to 500 MHz.

Pushbuttons are provided für manual operation, LEDs showing the particular switching status. Remote control is performed via the IEC-bus connector (IEEE 488). After addressing the instrument, the required status can be programmed directly in ASCII code, e.g. R134S256 means reset (R) relays 1, 3 and 4, and set (S) relays 2, 5 and 6. If three relays are used as a 1-out-of-4 switch, one control character (A to D or E to H) is sufficient to switch the corresponding connection to the common terminal.

The combined operating mode COMB. permits both remote and manual control of the relays for preparing and checking the programs.

Specifications

Connectors	.....
Frequency range	.....
VSWR	.....
Transmission loss	.....
Crosstalk attenuation	.....
Max. power handling capacity	.....
Switching time	.....

General data

Contact life (mechanical)	.....
Programming	.....
Connection	.....
Functions	.....
Reponse time for addressing and data transfer	..
Nominal temperature range	.....
Power supply	.....
Overall dimensions (W × H × D)	.....
Weight	.....
Colour	.....

Order designation

Accessories supplied

2 coaxial links (N connector)	.....
2 coaxial links (BNC connector)	.....
Power cable	.....
Manual	.....

Recommended extras

IEC-bus cable (0.5m) PCK	.....
(1 m) PCK	.....
(2 m) PCK	.....
(4 m) PCK	.....
19" adapter ZZA-2 for installing up to two PSUs in 19" racks or 19" cabinets	.....

Relays 1 to 3

50-Ω N sockets on front panel
DC to 6 GHz
<1.22 up to 1 GHz
<0.3 dB up to GHz (typ 0.15 dB)
>80 dB up to 1 GHz
100 W at 0.1 GHz
50 W at 1 GHz
<25 ms

Relays 4 to 6

50-Ω sockets on rear panel
DC to 500 MHz
<1.1 up to 100 MHz
0.2 dB up to 100 MHz
>40 dB up to 100 MHz
1 A at 28 V
<7.5 ms

>1,000,000 switching actions
IEC bus
24-way, Amphenol
L2 (listener function)
<1 μs
+10 to +45 °C
115/125/220/235 V ±10%; 47 to 420 Hz (max. 25 VA)
211 mm × 112 mm × 346 mm
4.8 kg
front panel: light grey RAL 7035

► RF Relay Matrix PSU
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292.2013.05
292.2013.10
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