

HF Transceiver Family



R&S® XK 2000

Remote Control Unit R&S® GB 2000

Remote control for detached operation of R&S® XK2100/2500/2900

- ◆ Layout and function of control and display elements are identical to the local front panel
- ◆ Remote control of all functions (operation, programming and configuration)
- ◆ Simultaneous connection of local (front panel) and remote unit (R&S® GB 2000 or PC) possible
- ◆ Remote control over any distance via telephone or directional radio-channels by means of line modems or VFT modems
- ◆ Very good system flexibility due to easy configuration of various AF and PTT assignments, serial control ports, hardware or software actuation of PTT
- ◆ Robust and splash-proof design, dust-protected front panel (IP 54 protection); rugged case (IP 42), optional IP 54 protection available on request
- ◆ Remote operated ALE (to FED-STD-1045) operation



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Brief description

Remote Control Unit R&S®GB 2000 enables the remote control of all transceivers of the R&S®XK 2000 family. The use of R&S®GB 2000 is recommended whenever detached operation – also over any distance – is required because of reasons of space or system layout (central control unit and radio equipment are at different locations). An integrated, serial and bus-compatible interface affords point-to-point and addressable operation for up to 99 radios in a system. For more than 10 radios line drivers must be provided. At distances less than 100 m (between R&S®GB ... and R&S®XK ...) a 3-core screened cable is sufficient.

As far as the front-panel layout and operating concept are concerned Remote Control Unit R&S®GB 2000 is identical with the local operation of Transceiver R&S®XK 2100 and Receiver/Exciter R&S®GX 2900. An optional swivel adapter allows the operator to make adjustments for optimal viewing angle and ergonomic operation.



Remote Control Unit R&S®GB 2000

Specifications

Inputs, outputs/interfaces

AF interfaces	
AF input/output to R&S®XK2000	at AF/REMOTE connector
AF input/output for local mode	at AF/LOCAL connector
AF output for headphones	50 mW, 300 Ω (adjustable)
AF output for loudspeaker	3 W, 4 Ω, adjustable, switchable
Microphone inputs	2
Serial interfaces (control)	
Remote control for long distances (via modems)	RS-485/RS-422, bus-compatible
Remote control (via modems) and software updates (direct downloading from PC)	RS-232-C
Transmission rates	00/200/300/600/1200/2400/4800/9600 Bd
1PTT control interface	
AF/LOCAL connector	linked with AF/REMOTE, TTL and V.10 levels
AF/REMOTE connector	activated by ORed combination of the two PTTs of AF/LOCAL connector, V.10 level
PTT	with remote telegram or configurable line
Power supply	
	16 V _{DC} to 31 V _{DC} , and 90 V _{AC} to 260 V _{AC} , with auto switchover from AC to DC (if AC fails)
Current drain (DC)	≈ 800 mA
Remote switch-on	R&S®XK2000 can be switched on separately or together with R&S®GB2000; programmable port output for remote switch-on with V.10 level

General data

Desktop version, 3 HU, 443 mm width, ≈ 140 mm depth (without connectors)	
Environmental conditions	
Operating temperature range	-25 °C to +55 °C
Storage temperature range	-40 °C to +85 °C
Altitude	max. 3000 m, max. +35 °C (operation) max. 10000 m (transport)
Humidity	MIL-STD-810E, method 507.3
Vibration	
Sinusoidal	EN 60068-2-6
Random	MIL-STD-T-28800 (0.01 g ² /Hz, 10 Hz to 300 Hz, 1.9 g rms)
Shock	MIL-STD-810E, method 516.4, proc. I
Protection	EN 60529/IP43
EMC	EN 50081-1; EN 50082-1
Safety	EN 60950/VDE 0805
MTBF	10600 h

Ordering information

Designation	Type	Order number
Remote Control Unit	R&S®GB 2000	6064.2002.02
Swivel Adapter	R&S®KA 2000	6064.3250.02



More information at
www.rohde-schwarz.com
(search term: XK2000)



ROHDE & SCHWARZ

www.rohde-schwarz.com

Europe: +49 1805 12 4242, customersupport@rohde-schwarz.com
USA and Canada: +1-888-837-8772, customer.support@rsa.rohde-schwarz.com
Asia: +65 65 130488, customersupport.asia@rohde-schwarz.com