



## Remote Control Unit R&S® GB 6500

The Remote Control Unit R&S® GB 6500 allows the remote control of R&S® M3AR airborne VHF/UHF transceivers in fixed-channel or EPM (ECCM) mode. The control unit is suitable for installation in cockpits according to MS25212.

It is also possible to use two remote control units in a standby configuration to control one radio.



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## Specifications

### Control functions

Rapid in-flight operations	<ul style="list-style-type: none"> <li>– OFF</li> <li>– transmit/receive (guard receiver disabled)</li> <li>– transmit/receive + guard (guard receiver enabled)</li> <li>– ADF</li> <li>– volume control</li> <li>– squelch (main receiver) on/off</li> <li>– acknowledgement of error indications</li> <li>– TONE</li> <li>– selection of: <ul style="list-style-type: none"> <li>preset channels</li> <li>maritime channels (option)</li> <li>guard frequency</li> <li>– increment/decrement preset channel number</li> </ul> </li> <li>– TAKE control</li> </ul>
Infrequent in-flight operations	<ul style="list-style-type: none"> <li>– selection of: <ul style="list-style-type: none"> <li>manual frequency</li> <li>preset number</li> </ul> </li> <li>– change of default values for: <ul style="list-style-type: none"> <li>RF power</li> <li>ship/shore selection (maritime channels)</li> <li>master/slave selection in R&amp;S® SECOS mode</li> <li>AM/FM selection</li> </ul> </li> <li>– net entry in R&amp;S® SECOS mode</li> <li>– erasure of: <ul style="list-style-type: none"> <li>EPM (ECCM) related parts of individual presets</li> <li>EPM (ECCM) data set</li> </ul> </li> <li>– in SATURN/HAVE QUICK mode</li> <li>– time-relevant operations (TOD): <ul style="list-style-type: none"> <li>transmitting/receiving</li> <li>various methods of time acquisition</li> </ul> </li> </ul>
Manual pre-flight setup	<ul style="list-style-type: none"> <li>– partial preset programming</li> <li>– preset loading</li> <li>– date and time update</li> <li>– initiated built-in test (IBIT)</li> <li>– setting of: <ul style="list-style-type: none"> <li>SQL level of main/guard receiver</li> <li>volume of guard receiver (referred to main receiver)</li> <li>side tone attenuation (referred to main receiver)</li> <li>clipper point for receive AF</li> <li>display brightness</li> <li>modulation input level</li> <li>panel illumination brightness</li> <li>AGC amplifier on/off</li> </ul> </li> <li>– EPM (ECCM) setting</li> <li>– EPM (ECCM) data loading</li> </ul>

### Environmental conditions<sup>1)</sup>

Operating temperature range	–40°C to +55°C
Permissible temperature range	–54°C to +71°C
Storage temperature range	–54°C to +90°C
Shock/vibration	MIL-STD-810E
EMC	MIL-STD-461C, MIL-STD-462D
<b>Power supply</b>	to MIL-STD-704A, cat. B
Supply voltage	22.5 V to 30 V DC (neg. ground)
Emergency operation	16 V to 30 V DC
<b>Transients</b>	MIL-STD-704A
<b>Dimensions (W × H × D)</b>	
Body without connector	127 mm × 76.2 mm × 72.4 mm
Body with lids and connector	146 mm × 76.2 mm × 91.4 mm
<b>Weight</b>	≤1 kg

<sup>1)</sup> Acc. to MIL-HDBK-5400, class 1, modified.

### Remark:

EPM (ECCM) related data can be set only if the airborne transceiver is loaded.

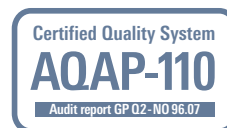
## Ordering information

Designation	Type	Order No.
<b>Remote Control Unit</b>		
RS-485, control of R&S® M3AR in fixed frequency/plain mode, control of R&S® M3AR in EPM (ECCM) mode, illumination white, display yellow	R&S® GB6500	6087.0012.31
RS-485, control of R&S® M3AR in fixed frequency/plain mode, control of R&S® M3AR in EPM (ECCM) mode, illumination white, display red	R&S® GB6500	6087.0012.32
RS-485, control of R&S® M3AR in fixed frequency/plain mode, control of R&S® M3AR in EPM (ECCM) mode, illumination NVG <sup>1)</sup> (green A), display green	R&S® GB6500	6087.0012.33
RS-485, control of R&S® M3AR in fixed frequency/plain mode, control of R&S® M3AR in EPM (ECCM) mode, illumination red, display red	R&S® GB6500	6087.0012.34
RS-485, control of R&S® M3AR in fixed frequency/plain mode, control of R&S® M3AR in EPM (ECCM) mode, illumination NVG (green B), display green	R&S® GB6500	6087.0012.35
Mating Connector for all R&S® M3AR	R&S® ZR6500	6087.1025.02

<sup>1)</sup> Night vision goggles.

### Remarks:

The display of all remote control units can be controlled by external voltage or by a day/night/NVG switch. Previous versions 6087.0012.xx (xx = 21/22/23/24/25) are available on request for spare part purposes only.



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