



Fillgun R&S® GP 3000

for R&S®MR 3000 radios



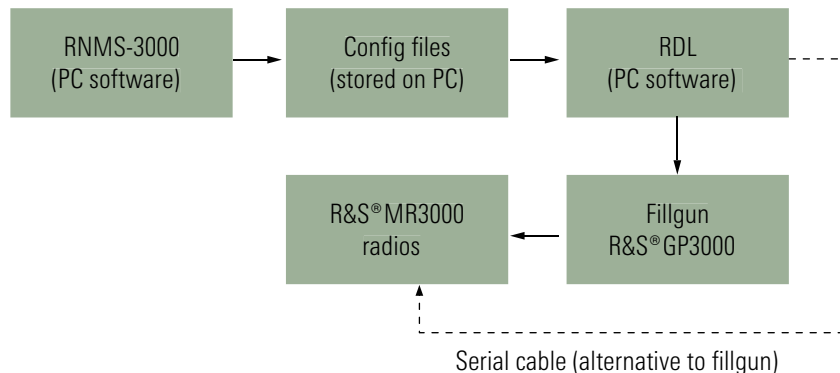
Overview

The fillgun (data load device) is used to transfer configuration data to one or more R&S®MR 3000 radios. Its particular advantage is that data can be distributed to radios without requiring additional hardware such as PC's and power supplies.

Configuration can include the following for example (depending on loaded software options):

- ◆ Transceiver operating modes (FF, FH, ALE, voice/data modes)
- ◆ Assignment of nets and channels to preset pages (up to 99)
- ◆ Frequencies and hop sets of presets
- ◆ Configuration of data modems
- ◆ Simplex or semiduplex operation
- ◆ Channel parameters (modulation, squelch type, power, voice compression, etc)
- ◆ Address management, SECOM/ALE addresses, ptp, ptm link management
- ◆ Modem configuration, modem support
- ◆ Security keys for TRANSEC and COMSEC

The fillgun needs no power supply since it is supplied by either the connected PC or the radio. The fillgun status is indicated by LEDs (power on, reading, writing, connected, error).



Use

Operation is simple and straightforward. After setting up a net configuration with RNMS-3000 (see also RNMS-3000 documentation), the generated configuration files are stored in the fillgun via the serial interface (USB) of the PC running RNMS-3000 and remote data loader (RDL). The fillgun now contains the necessary preset information for all radios of the addressed network(s). Configuration data may differ between the subscri-

ers (radios) of a net; therefore each radio will download the information that was specifically generated for it during the network management process.

At the radio site, operator action is limited to choosing the appropriate RGA (radio global address) in the radio MMI to assign a radio to its preconfigured configuration. After finishing the download process, the radio will reboot and be fully operational afterwards.

Security

All files transferred from and to the fillgun are encrypted before loading. Sensitive data such as keys is therefore stored in the fillgun in black form only.

Specifications

Electrical specifications	
Data rate on serial interfaces	up to 115.2 kbit/s
Data rate on USB interface	acc. to standard USB 1.1 Full Speed
External power supply	serial: provided by R&S®M3TR (19 V to 31 V DC) USB: provided by PC (+5 V DC)
Internal supply	no internal battery
Memory	non-volatile, 32 Mbyte
Connection to radio	connector fitting directly into the DATA connector of the R&S®M3TR radio
Connector to PC	via USB cable
Environmental specifications	
Temperature range	acc. to MIL-STD-810E methods 501.3 and 502.3
Operating temperature range	-40 °C to +70 °C
Fully specified temperature range	-25 °C to +55 °C
Storage temperature range	-40 °C to +85 °C
Temperature shock	acc. to MIL-STD-810E method 503.3
Shock	acc. to MIL-STD-810E method 516.4
Vibration	acc. to MIL-STD-810E method 514.4
Leakage (immersion)	1 m depth during 2 h, acc. to MIL-STD-810E method 512.3
Humidity	acc. to MIL-STD-810E method 507.3
Salt fog	acc. to MIL-STD-810E method 509.3

Sand and dust	acc. to MIL-STD-810E method 510.3
Fungus	acc. to MIL-STD-810E method 508.4
Low pressure (altitude)	acc. to MIL-STD-810E method 500.3
Solar radiation	acc. to MIL-STD-810E method 505.3
Icing/freezing rain	acc. to MIL-STD-810E method 521.1
Mechanical specifications	
Colour Labelling	black elox. coating engraved in white
Dimensions (length × diameter) (maximum, cylindrical shape)	100 mm × 40 mm
Weight	<200 g

Ordering information

Designation	Type	Order No.
Fillgun	R&S® GP 3000	6099.3805.02
USB Cable Fillgun to PC	R&S® GK3021	6118.1750.02



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