



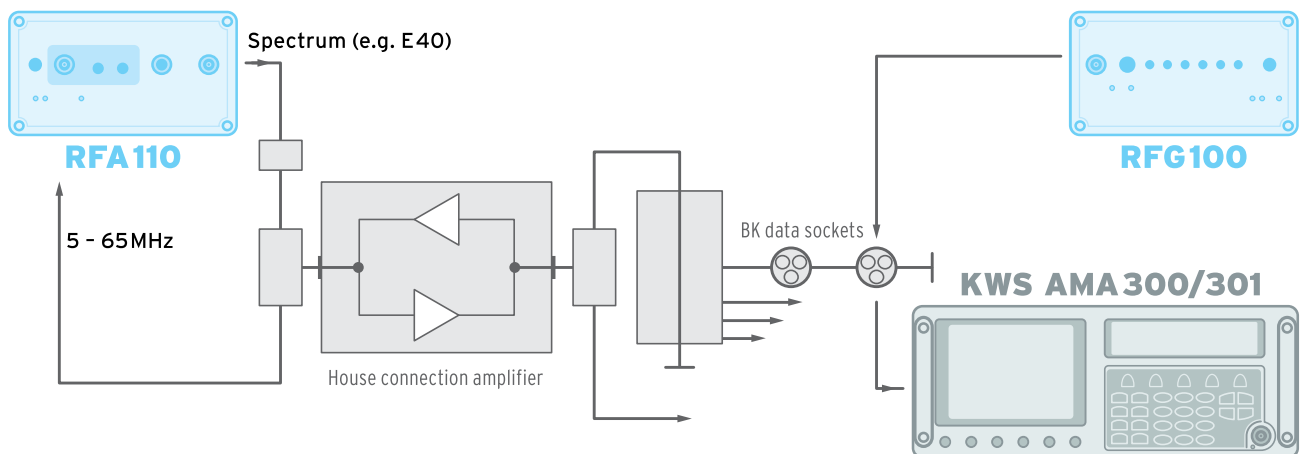
Depending on the application, the return channel generator RFG100 feeds between one and seven peak carriers into the return channel. The individual carriers can be switched on/off.

With the RF Analyzer RFA110, the spectrum of the incoming return channel is recorded in real time and displayed as a picture – modulated on a free carrier – and fed into the forward path of the system.

**i** You can find detailed technical data, the operating manual and further information on our homepage [www.kws-electronic.de](http://www.kws-electronic.de) – or simply call one of our in-house contact persons by telephone.

## TEST EQUIPMENT

You can check the level of the return channel at the terminal connection socket up to the transfer point, using the measuring system shown.





## RFG100 - RFA110

### Specifications for RFG100:

RF generator	6+1 oscillators (10-20-30-40-50-60MHz set - one variable carrier)
RF output	F socket 75 ohm
RF level	70/80 - 100/110 dB $\mu$ V adjustable in 2 dB increments
Level accuracy	$\pm$ 1dB
Power supply	mains and battery supply (6V/1.2Ah)

### Specifications for RFA110:

RF analyzer	3 - 65MHz
Measuring range	40 - 85 dB $\mu$ V
Measuring accuracy	$\pm$ 1dB
RF input	F socket 75 Ohm
TV output	F socket 75 Ohm Channel adjustable between E21 and E68
Video output	RCA socket on the frontside
Power supply	mains and battery supply (6V/1.2 Ah)

## RETURN CHANNEL MEASURING KIT

### Using the kit:

After the forward path has been successfully measured and levelled correspondingly, set the BK network to the correct level in the return channel range. First, calibrate the return path of the installed amplifier to the calculated level. Then check the distribution network. The modem is simulated at the terminal connection socket at the data connection using the RFG100 generator.

The return channel spectrum that is received at the transfer point is modulated on a free carrier in real time using the RFA110 Analyzer. This means that the output channel can be chosen freely within the range E21-E68. You can then check the return path level at the TV connection of the terminal connection socket using a measuring receiver (AMA or VAROS).