

## Description

Many producers of radios equip the majority of their products with RDS, increasingly even home radios.

In order to enable servicing RDS radios, it is essential for the repair shops to obtain an RDS generator. This device will enable them to provide the necessary facilities for checking and repairing such radios.

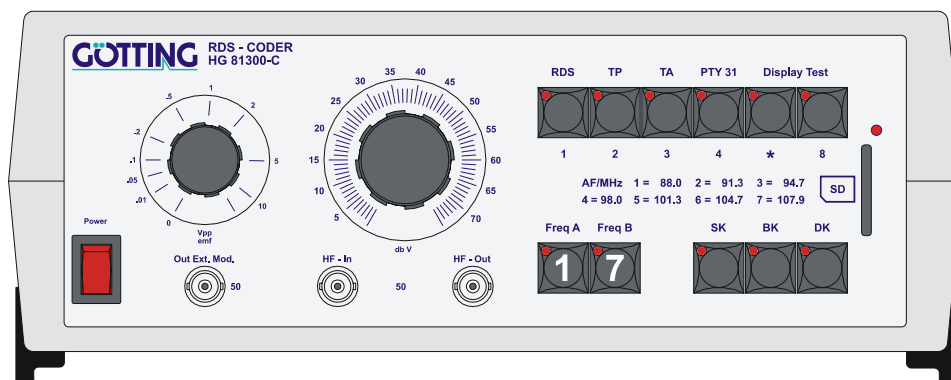
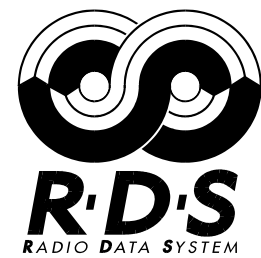
The RDS Service Generator HG 81300-C is a function generator for checking the most important RDS/RBDS/MBS functions (EON, TP, TA, PTY, PS, AF, CT, RT, TDC, IH, RP) as well as other elementary functions of modern VHF receivers. It was developed in co-operation with one of the leading producers

of car audio equipment and is excelled by being an exceptionally low priced alternative compared to other measuring devices.

The wide variety of available connections simplifies the adaption of the RDS generator HG 81300-C to specific testing assemblies.

In addition, a PC interface combined with the appropriate PC software enables an easy generation of any RDS group types.

**For the American market, there is a PC control software (MS DOS version) available that enables testing RBDS features. The coder is software compatible with the former version HG 81300-B.**



## Main Features

- ♦ RDS/RBDS/MBS-modulator with the most important test patterns according to DIN EN 50 067 (including EON)
- ♦ for testing of ARI\* functions:
  - traffic announcement identification
  - traffic area identification
  - traffic information carrier
- ♦ internal and external multiplex generator
- ♦ LF for modulation of an external RF generator

\*) Broadcast information for motorists.

## Application

- ♦ for service and testing of of:
  - RDS/RBDS function
  - sensitivity
  - ARI\*
  - stereo function
- ♦ for the development: simulation of not yet defined RDS-groups

## Modulation Signals and Frequencies

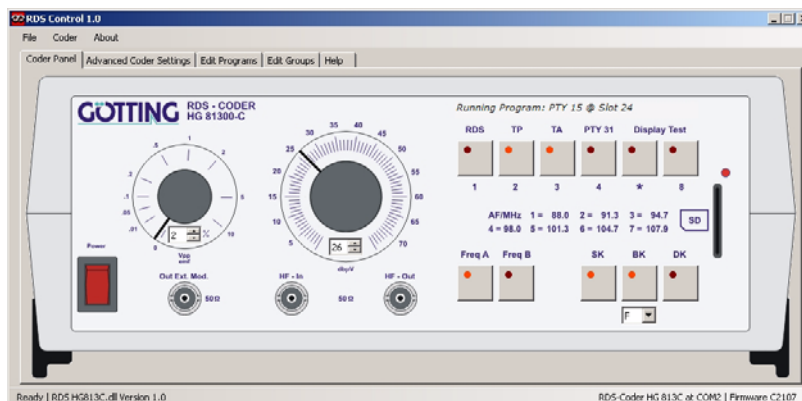
Internal Modulation Signal			
multiplex signal (left channel)	1.90 kHz (adjustable)	announcement identification	125 Hz, 30% AM
multiplex signal (right channel)	4.75 kHz (adjustable)	area identification	Region A - F (adjustable), 60% AM
pilot tone 19 kHz	6.75 kHz frequency deviation	RDS signal	1.2; 2.0; 4.5 kHz frequency deviation
unmodulated traffic information carrier	3.2 kHz frequency deviation (adjustable)	RDS functions	TP, TA, PTY, PS, AF, EON, CT, RT, TDC, IH, RP
External Modulation Signal (deviating values)			
multiplex signal (left channel)	0.768 kHz (adjustable)	multiplex signal (right channel)	3.16 kHz (adjustable)

## Directions of Ordering

RDS Generator	HG 81300-C
Option cable assembly	<ul style="list-style-type: none"> <li>- 1 m cable BNC connector / BNC connector</li> <li>- 1 m cable BNC connector / 2 x 4 bunch pin plug</li> <li>- 1 m cable BNC connector / HF 4/13 connector</li> <li>- 0.1 m Kabel BNC connector / HF 4/13 connector</li> <li>- Socket HF 4/13 (socket / socket)</li> <li>- Connector HF 4/13 according to DIN 47283, RG58 cable (50 Ohm)</li> </ul>

## PC Program

Display of the program for controlling the HG 81300-C generator from a PC.



## Technical Data

- Dimensions	270 x 300 x 120 mm (L x W x H)
- Protection class	IP 41
- Output voltage for modulation output	0,1 to 10 V <sub>SS</sub>
- Supply voltage	100 to 240 VAC, 50/60 HZ, 10 W
- RF output level, int. generator	1 µV to 3 mV or 0 dBµV to +70 dBµV or -10 dBm to -37 dBm
- Insertion loss (ext. signal)	10 dB
- Working temperature	0 to 50° C
- Storage temperature	-20 to 70° C
- Humidity	80% max. without dew
<b>Frequencies</b>	
- Carrier Frequency (fixed)	88,0/91,3/94,7/98,0/101,3/104,7/107,9 MHz
- PC programmable	87,6 to 107,9 MHz in steps of 100 kHz