

# ENAMS-Receiving System

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## System Status as per 25.4.2019

New data-bank (HDF5) to be installed until mid-May, location: DARC headquarters in Baunatal

The system can address up to 255 receivers. automatic backup.

Data file size approx. 250kB per measurement, 6 per hour, equals approx 36Mb per day and station

Secure communication per SSH

Antenna factor changed to  $k=1/m$  resp. 0dB/m, see attached report from DL2NI  
System noise-floor between quiet rural and rural from 2 to 30MHz

Standard antenna-cable, double shielded, with ferrite common mode chokes, length=25m.

Pre-series stations (5 units) for system-test to be fielded until end of May.

Series stations from end of June onwards, planned rate 2 per week.

## Calibration:

Each receiver is calibrated from 60 kHz to 30MHz at final check

Internal calibration procedure with internal signal-generator 4 .. 12 times per day

Antennas are calibrated at final check with an antenna dummy.

## Installation requirements:

Antenna-installation on ground only

Antenna-site: approx 6x6 sqm, distance from buildings and trees  $\geq$  height of building

Antenna cable entrance into protected room (Attention: BNC-connector!)

Receiver in weather-protected room or cabinet

Mains-supply 210 to 250VAC

Internet access 24/7 via LAN for installation, for normal operation WLAN.