

CAR – Coupling Network

CAR – CN

Coupling network for low frequency sinusoidal disturbances

- Coupling transformer
- Frequency range 30Hz – 300kHz
- Voltage capability: 1800V
- Current capability: 50A/ 100A (rms)
- Turns ratio 2:1 step down



According to
ISO 7637-4: 2020

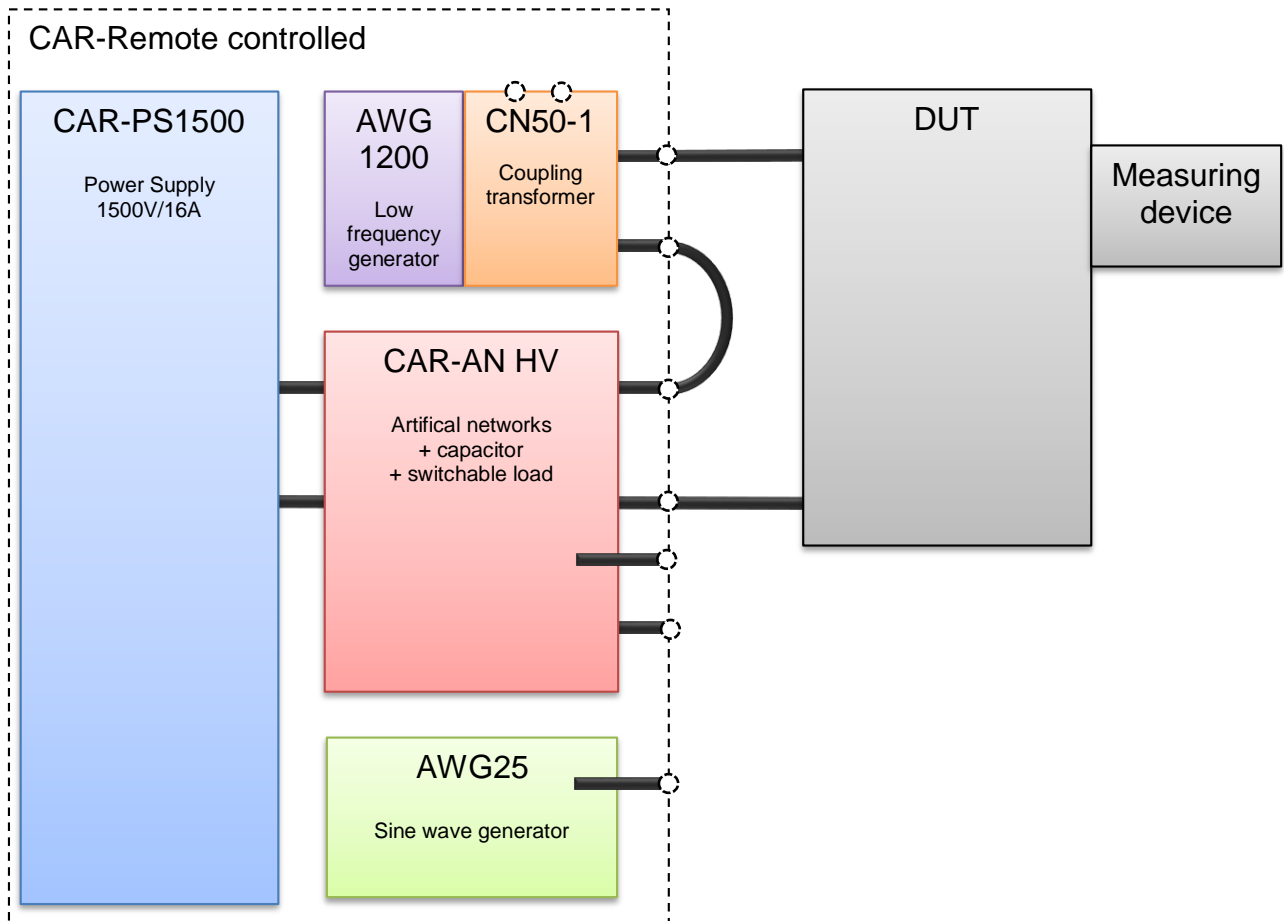
The CAR coupling network is used to couple, according ISO 7637-4:2020, the required sinusoidal disturbances into the DUT. This transformer also facilitates d.c. isolation of the LF generator from the DUT. The transformer has a current rating of 50A/ 100A (rms) for the DUT.

The software program CAR-remote permits the PC control of the CAR-System via Ethernet and allows the standardized documentation according to IEC 17025 and the evaluation of test results.

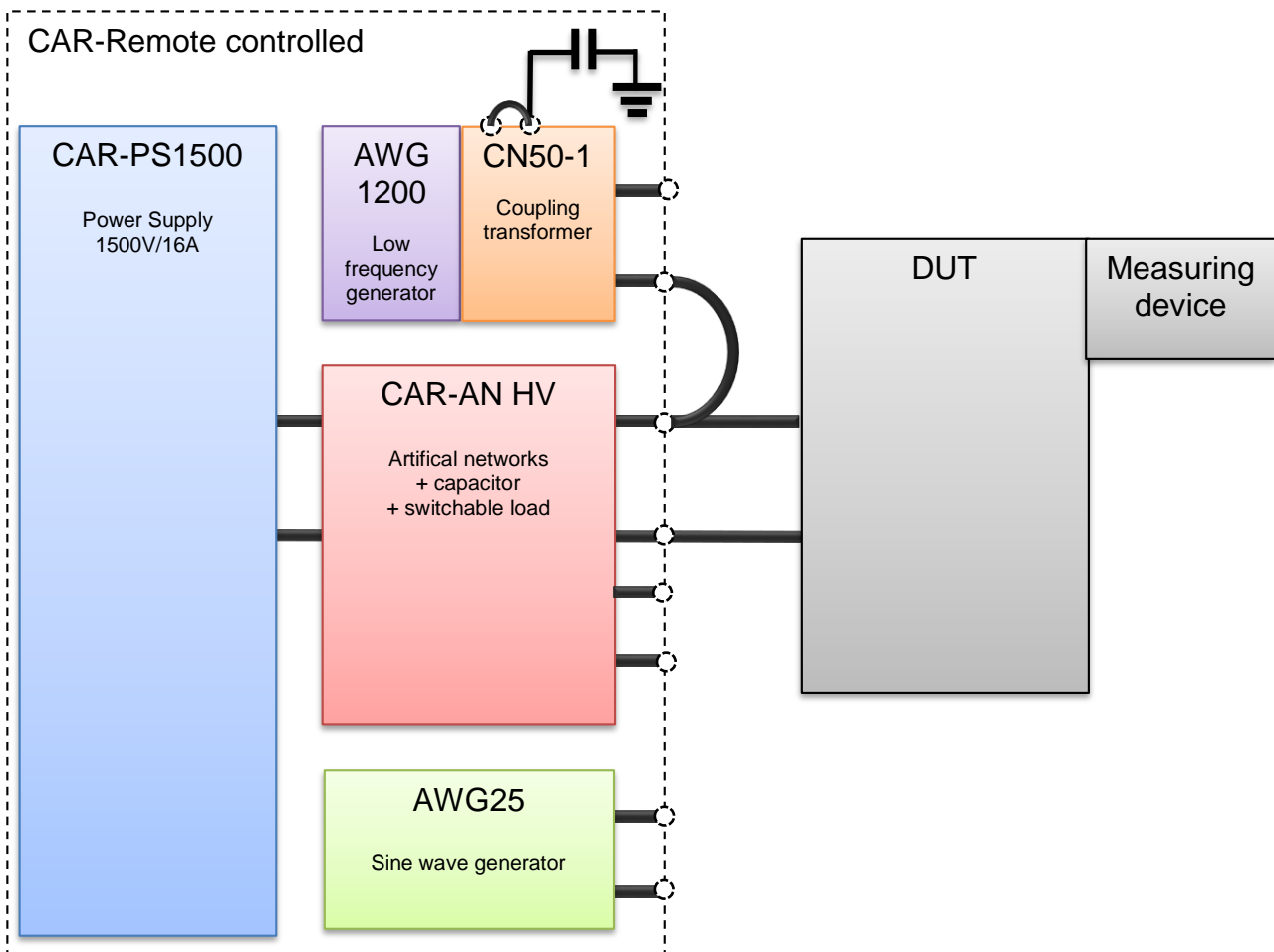
Control	Description
CAR-REMOTE-AWG	Remote software with Impulse Recording Function (IRF) (XP, WIN7, WIN10) incl. Ethernet switch

Setup for a full setup to fulfil standard ISO7637-4:2020:

Example for connection of waveform B (“in-line HV+”):



Example for connection of waveform B (“HV+ to Ground”):



TECHNICAL SPECIFICATIONS:

CAR – CN 50/100

Mainframe

Ethernet Interface for remote control of the generator	Built-in
Connector for external safety interlock loop	24 V=
Mains power	90V - 264V, 50/60 Hz
Dimensions, case, W * H * D	450*180*500 mm ³
Weight	10kg

Transformer

Isolation transformer	
Frequency range	30Hz – 300kHz
Max. Power	200W
Max. Current	50A / 100A (rms)
Max. Voltage	1800 V
Turns ratio	2:1 step down
Cooling	fan
Internally pluggable capacitor for coupling to ground	100nF