SIEMENS

20 kW Tropical Band Short Wave Broadcast Transmitter



The Siemens HF-Transmitter type WR Send 20 K-03 is intended for amplitude modulation with a carrier power of 20 kW and may be provided either as a single channel transmitter or for two channel operation with semi-automatic frequency changing.

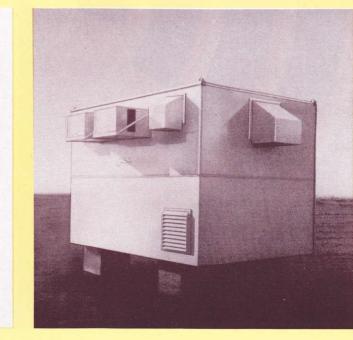
The electrical data are corresponding to the CCIR and ARD standard. All safety equipments and control function being necessary are available.

Special Characteristics

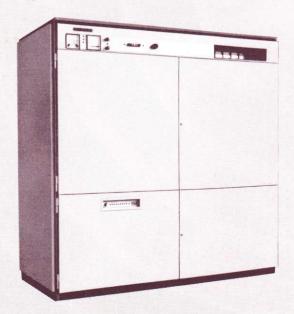
- 2 valves only (air cooled)
- Pulse duration modulation (advantage for modulation capability and efficiency)
- Automatic re-start in case of interference
- Automatic re-start in case of power failure (duration not limited)
- Fault memory
- Power reduction
- Electronic heating voltage regulator
- RFmeasuring outputs and demodulator

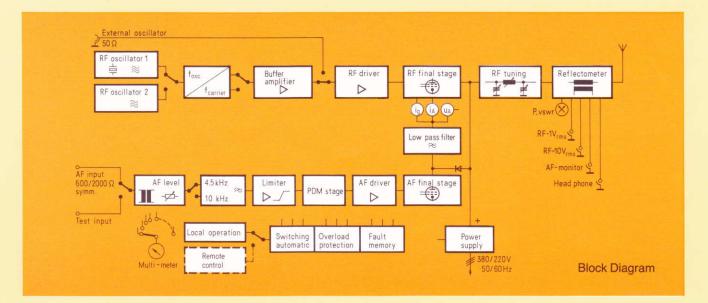
- Crosspointer instrument for RF output power and VSWR
- Suitable for installation in shelters and vehicles
- Small dimensions
- Reduced weight
- Simple installation and operation
- Easy maintenance
- All tuning and service work can be done from the front
- Conducted inlet and exhaust air possible
- Suitable for remote control

Containerized Broadcast Station









Technical Data

Frequency range	3.29.775 MHz (tropical bands 90, 75, 60, 49, 41 and 31 m)
Frequency stability	± 5 Hz
Power output	20 kW
Power reduction	to 10 kW
Carrier shift	4% or less with 90% modulation at 1000 Hz
RF harmonic radiation	less than 50 mW
RF non-harmonic radiation	less than 70 dB
Type of transmission	9 A3 (Amplitude modulation, broadcasting, double-side band, band-width 9 kHz)
Output impedance	50 Ohms unbalanced, RF-connector EiA
VSWR	less than 2
Audio input	2000 or 600 Ohms balanced
Input level	-4+10 dBm at 100% modulation and f=1 kHz
Audio frequency response	100 4000 Hz \pm 1 dB without low pass filter
Audio frequency distortion	less than 3% at 602250 Hz with 80% modulation
Modulation capability	100%
Noise (unweighted)	50 dB or better
Noise (weighted)	60 dB or better
Power supply	three phases 380/220 V \pm 10%, 50/60 Hz, others on request
Power consumption	approx. 40 kVA at $m = 0$ approx. 60 kVA at $m = 1$
Power factor	95% or better
Tubes	1 tetrode YL 1500 (AF) 1 tetrode YL 1500 (RF)
Dimensions	$1.84 \text{ m} \times 1.83 \text{ m} \times 0.84 \text{ m} \stackrel{\circ}{=} \text{W} \times \text{H} \times \text{D}$
Weight	approx. 1000 kp

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