

VHF/FM Transmitter T 3273



Highlights of VHF/ FM TRANSMITTER T 3273

- Simple operation utilising clearly arranged menu guided control on graphical display
- Easy maintenance as result of modular design, 9 HU, 19"
- All control functions are displayed on the graphical display
- Integrated deviation limiter
- All reserve concepts according IEC 864, part 1, can be realised
- Direct modulated synthesizer
- Channel grid 10 kHz
- Integrated stereo encoder
- Proven MOSFET technology
- Excellent reliability due to low junction temperature (less than 90°C at 25°C ambient temperature)
- Outstanding quality data in terms of signal-to-noise ratio, stereo cross-talk attenuation, frequency response, non-linear distortion
- Protection against over-current, failure of cooling ventilator and any VSWR
- Output power: settable continuously between 200 and 1000 W
- 1000 W output power realised by four 250 W amplifiers in parallel
- Each 250 W amplifier uses separate harmonic filter

Technical data:

Nominal RF output power	1000 W
Output connector	N
Adjustable range of RF output power	200 to 1000 W
Nominal RF output power up to VSWR 1:1.5	RF output power reduction for higher VSWR
Frequency range	87.5 MHz to 108 MHz
Settable frequency channel grid	10 kHz steps
Frequency change	≤ 1 sec
Readiness after mains interruption/failure	< 2 sec
Frequency stability over 3 months	< 300 Hz
Setting accuracy	< 30 Hz
Centre frequency shift	0 Hz
Preset frequencies	6
Stability of frequency deviation	< 1 %

Technical data (continued):

Run-in time	< 5 min
Out of band radiation	
0.2 MHz	- 139 dBc/Hz
0.3 MHz	- 136 dBc/Hz
Spurious emissions	
Harmonics	< 70 dB
Intermodulation products	< 1 µW
Regenerative attenuation	> 15 dB
Noise power density	- 154 dBc/Hz
Input impedance	> 2000 Ω or 600 Ω
Asynchronous attenuation	
40 Hz ... 300 Hz	> 70 dB
< 76 kHz	> 70 dB
Stereo-crosstalk	
40 Hz ... 100 Hz	> 55 dB
> 100 Hz ... 5 kHz	> 55 dB
> 5 kHz ... 15 kHz	> 55 dB
Amplitude deviation	
40 Hz ... 43 kHz	< 0.1 dB
> 43 kHz ... 65 kHz	< 0.1 dB
> 65 kHz ... 76 kHz	0 dB
100 kHz	> -1,9dB
15 kHz low pass filter attenuation	> 45 dB
at 19 kHz	> 55 dB
> 19 kHz	> 55 dB
Modes of operation	Mono, stereo, MPX, L+R/2
AF-break jack for left and right channel	Option
AF level control range for 40 kHz deviation	- 5.25 dBm to + 12.5 dBm
Steps of level control	0.25 dB
Setting accuracy	≤ 0.1 dB
Pilot tone level	- 9.5 dBu
Settable range	- 25dBu ... - 5 dBu
RDS input level	- 14 dBu
Settable range	+/- 5 dB
SCA input level	- 10 dBu
Settable range	+/- 5 dB
Preemphasis (disconnectable)	25, 50, 75 µsec
Noise modulation at frequency modulation	Quasi peak noise voltage corresponding to DIN 45 405
Selective noise voltages	
Mono	> 80 dB
Stereo	> 80 dB
Signal to noise ratio (S/N), unweighted	
Mono	> 77 dB
Stereo	> 72 dB
Signal to noise ratio (S/N), weighted	
Mono	> 73 dB
Stereo	> 72 dB
External AM unweighted S/N, asynchronous	> 75 dB
AM weighted S/N, asynchronous	> 68 dB
AM weighted S/N, synchronous	> 58 dB
Remote control interface	Standard: RS232, Option: relay or BITBUS
Mains voltage supply & variation	
1/N/PE 110 V	95 V ... 132 V
1/N/PE 230 V	195 V ... 264 V
Mains frequency	47...63 Hz
Power consumption	1100 W at P _{out} = 500 W
cos φ	0.7
Cooling	internal ventilators
Temperature range for operation	- 10°C to + 50°C
Relative humidity	up to 95 %, without condensation
Dimensions Length x Height x Depth in mm	483 x 396 x 420
Weight	31 kg

Contact address:**TELEFUNKEN SenderSysteme Berlin AG**

Mertensstr. 63,
13587 Berlin, Germany

Contact: Gerd Barthel, Marketing & Sales

Telephone: +49-30-339 78-101

Telefax: +49-30-339 78-199

e-mail: g.barthel@tsb-ag.com

Internet: <http://www.tsb-ag.com>