

STL Transmitter STAT 1500



Features:

Low profile 1U / 19" transmitter for 1500MHz band with excellent audio & RF quality, small heat dissipation and a crystal clear user interface with LCD display.

The unit has a LCD display and 4 push buttons.

The display indicates the state of the device in words, e.g.:

- 'everything normal'
- 'SWR too high, power reduced'
- 'temp too high'

A measurement screen indicates:

- Forward power in W
- Reflected power in W
- FM deviation in kHz
- Temperature heatsink

A menu allows setting of:

- Output power (0,1 to 2W)
- Frequency (1492 to 1527 MHz in 50kHz steps)

Power stabilisation & protection:

101% protected against too high SWR with build in circulator and active power foldback during too high SWR.

Temperature protection.

Power is digitally stabilised at the set level.

PC monitoring:

A RS232 output (5V level) constantly gives out the measurement results of Forward, Reflected, temperature and deviation.

Typical specs:

Freq: 1492 – 1527 MHz (50kHz steps)

Output power: 0,1 – 2W

Harmonics: <-63dBc

MPX:

- Extremely flat frequency characteristic +/- 0,1dB (1Hz-100KHz)
- Low frequency crossover point without overshoot behaviour: 0,2Hz @ -1dB (important to keep audioprocessor overshoot at 0%)
- S/N: 74dB mono, 70dB stereo
- Very low distortion: < 0,05 % at 75KHz dev, mono
- Level for 75kHz deviation: 0,9 to 10Vptp
- Accurate frequency deviation meter
- Safety clipper at 115kHz deviation (STAT1500 must be preceded by audiolimiter or audioprocessor to limit deviation to 75kHz)

Power consumption: 230Vac <15VA (nominal 8W)

Temperature range: -10 .. +40 °C

Heatsink: only 10°C temperature rise, no fan.