

UHF & VHF Digital TV Transmitters

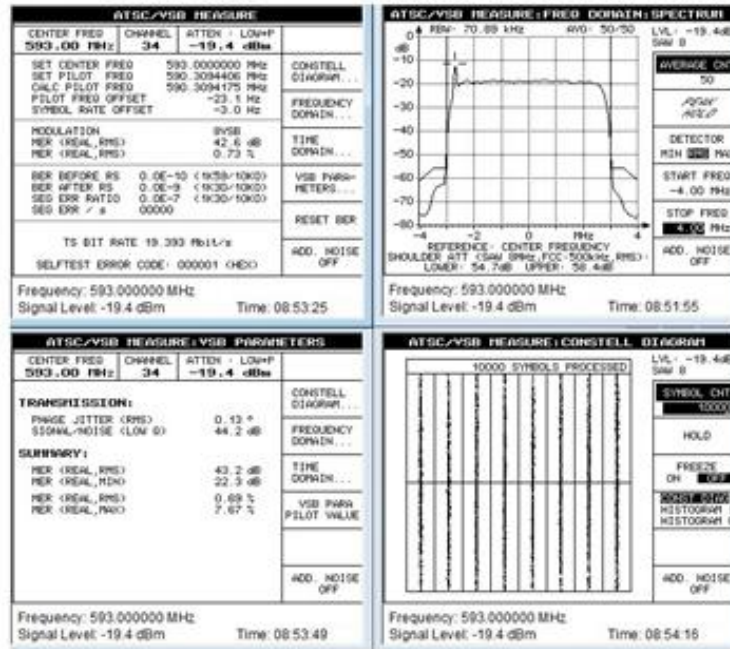
25 W – 5 KW TV Transmitters



- Full Color Touch Screen Display
- Internal RF Isolator (UHF, VHFIII)
- Two Stage Amplification
- Class A/AB Operation
- Efficient Transistors and Power Supplies
- Extensive Monitoring via Ethernet, SNMP, and Remote Samples
- Two Year Warranty

RF CHARACTERISTICS

<i>Frequency Range</i>	VHF 50 – 230 MHz, UHF 470 - 860 MHz
<i>Input Power</i>	0 dBm into power amplifier from modulator
<i>Nominal Output Power (8VSB)</i>	VHF: 25W, 40W, 100W, 250W, 500W, 1kW, 2kW, 3kW, 4kW, UHF: 40W, 100W, 250W, 500W, 1kW, 2kW, 3kW, 4kW, 5kW
<i>Power Level</i>	Adjustable 10 – 100%
<i>Input Impedance</i>	50 Ω into amplifier, BNC female
<i>Output Impedance</i>	50 Ω, N or 7-16 DIN female (dependent on power level)
<i>Modulation</i>	8VSB, QAM, DVBT/H, etc (output power will change between standards)
<i>Signal and Noise</i>	MER >36 dB typical BER >38 dB typical SN >40 dB typical
<i>Phase Jitter</i>	>104 dB
<i>Shoulders</i>	>-50 dB typical, ATSC mode compliant to ATSC A53/B



Typical Performance Specifications

ELECTRICAL

Flexible AC Input	VHF PA:	25W/100W/250W/500W	90-264Vac
		1kW/2 kW/3 kW/4 kW/5kW	180-264Vac
	UHF PA:	25W/100W/250W/500W	90-264Vac
		1kW/2kW/3kW/4kW/5kW	180-264Vac

Other AC supply voltages and phases available upon request

INTERFACE

DB25 Remote Port	Control: Monitor: Flags:	RF carrier on/off, RF power up/down, reset Forward/reflected RF level, control PCB Vcc Overdrive, VSWR (adjustable trip point), high temperature
Ethernet	Control: Monitor: Flags:	RF carrier on/off, RF power up/down, AGC/manual mode, change VSWR trip point, reset Forward/reflected RF level, pallet voltage, RF input level, temperature, VSWR trip point, model/serial number Carrier on/off, overdrive, pallet voltage, VSWR, RF input, temperature, AGC / manual
SNMP	Control: Monitor: Flags:	RF carrier on/off, RF power up/down, AGC/manual mode, change VSWR trip point, reset Forward/reflected RF level, DC pallet voltage, RF input level, temperature, pallet current, attenuation, run time, RF fault, model/serial number Overdrive, VSWR, temperature, SNMP error



Touch Screen Interface



Modulator Interface

PHYSICAL FEATURES

<i>Minimal Rack Space</i>	VHF PA: 3U – 25W/40W; 5U – 100W/250W/500W; 6U – 1kW; 12U – 2kW; Rack - 3kW/ 4kW/5kW	x 25" (D) x 19" (W)
	UHF PA: 3U –40W; 5U – 100W/250W/500W; 6U – 1kW; 12U – 2kW; Rack - 3kW/ 4kW/5kW	x 25" (D) x 19" (W)
<i>Lightweight Enclosures</i>	Aluminum	
<i>Operating Temperature</i>	0 to +45° C	
<i>Humidity</i>	90%, non-condensing	