ETL Series TV UHF / VHF

5 kW and 10 kW Field Channel Programmable TV Transmitters / Translators

- Available as Transmitters or as Translators
- 2 Video & 2 Audio inputs with auto default switchover
- Stereo/dual sound compatible
- Group delay pre-correction
- Available for offset configuration
- High Efficiency, Switch-Mode Power Supply
- Microprocessor controlled measuring and protection
- Built-in redundancy on power supplies & output modules
- Alphanumeric LCD readout displays throughout
- RS-485 Serial Data In/Out
- Dual Forced Air Cooling on Power Amplifier Modules
- Available in all TV Standards Worldwide
- Meets or exceeds all FCC & CCIR requirements

UHF Models / Power Output / Description:
580TAD-TX: 5000 W TRANSMITTER, 310TCS + 580TAD
580TAD-TP: 5000 W TRANSLATOR, 290TCS + 580TAD
590TAD-TX: 10000 W TRANSMITTER, 310TCS + 590TAD
590TAD-TP: 10000 W TRANSLATOR, 290TCS + 590TAD
Low Band VHF Models / Power Output / Description:
580TAV1-TX: 5000 W TRANSMITTER, 310TFS + 580TAV1
580TAV1-TP: 5000 W TRANSLATOR, 290TFS + 580TAV1
590TAV1-TX: 10000 W TRANSMITTER, 310TFS+590TAV1
590TAV1-TP: 10000 W TRANSLATOR, 290TFS +590TAV1
High Band VHF Models / Power Output / Description:
580TAVD-TX: 5000 W TRANSMITTER, 310TFS + 580TAV
580TAVD-TP: 5000 W TRANSLATOR, 290TFS + 580TAV
590TAVD-TX: 10000 W TRANSMITTER, 310TFS+590TAV
590TAVD-TP: 10000 W TRANSLATOR, 290TFS + 590TAV
Note: In some countries, UHF is called Band 4 & 5; High Band VHF is called Band 3; Low Band VHF is called Band 1

Video Inputs

Input level	1V p-p -3 to +6 dB adj.
Input impedance	75 ohm
Return loss	> than or equal to 35 dB
Crosstalk	> than or equal to 56 dB up to 5 MHz

Audio Inputs

Input level for 50 KHz deviation	-12dBm - +6 dBm
Input impedance (balanced)	> than or equal to 5 K ohm
Crosstalk	> than or equal to 70 dB
Common mode rejection	> than or equal to 40 dB

Video Processor

Clamp circuits	referred to back porch or sync tip
White clipper threshold (color subcarrier not affected)	95% of modulation

VIDEO TRANSMISSION CHARACTERISTICS

Amplitude frequency response	±0.4 dB within visual bandwith
Group delay	< than or equal to 30 ns
Chroma/Luminance Nonlinearity	< than or equal to 2%
Static non linearity	< than or = to 5% up to 90% mod.
Differential gain	< than or = to 3%
Differential phase	< than or = to 3°
2TK factor	< than or equal to 1.5%
50 Hz square view distortion	< than or equal to 1.5%
S/N ratio (unweighted)	< than or equal to -57 dB
S/N ratio (weighted)	< than or equal to -64 dB
Sync pulse compression	< than or equal to 5%
ICPM	< than or = to 5%
COOLING:	Forced air

SOUND TRANSMISSION CHARACTERISTICS

Amplitude frequency response	± 0.4 dB 30 Hz to 15KHz
Total harmonic distortion	< than or equal to 0.3%
S/N (weighted)	> than or equal to 62 dB
Stereo cross-talk	> than or equal to 40 dB
Dual sound channel separation	> than or equal to 70 dB

RF OUTPUT CHARACTERISTICS

Intermodulation	< than or equal to -60 dBc

Spurious & harmonic emissions meet or exceed all FCC & CCIR req

RF Output / Impedance:	1- 5/8" EIA Flange / 50 Ohm

CARRIER FREQUENCIES:
Precision offset frequency capability with external reference

Frequency offset	up to ±30 KHz, 25 Hz steps
Internal reference stability	<1PPM, 3 months

EXT. REFERENCE FREQUENCY INPUT

Level / Frequency	0.5V rms - 1V rms / 5 MHz

DATA OUTPUT

Serial data output standard / Baud rate:	RS485 / 9600

Data available: FWD peak power, FWD average power, RFL peak power, RFL average power, Volt & Current Power supplies, Heat sink temperatures, Inlet air temperature, Temperature warning, Temperature alarm, VSWR, Excessive power alarm

Alarms & Protections: Overvoltage, Overcurrent, Overpower, Overtemperature, Excessive VSWR

AC Power Requirements	220V 3phase +/-10%, 50 - 60 Hz
Approx. Power consumption, 5 / 10 kW models:	12 / 24 kW
Nominal operating temperature range	-50° to +45° C
Dimensions , 5 kW model:	1130 mm (89") W x 2100 mm (82¾") H x 800mm (31½") [2 Standard 19" cabinets side by side]
Weight, 5 kW model:	700 Kg (1540 lbs)

Dimensions & Weight, 10 kW model: as above x 2

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