NAS100+ 100W VHF NAS TRANSMITTER

The NAS100+ is a solid state 100W VHF transmitter intended for the Narrowband Area Service bands.

The NAS100+ is fully compliant with AS4295 and has been type approved by ACMA.

Up to 100W of RF is available to overcome any multicoupler or transmission line losses, allowing NAS licence holders to reliably transmit at their maximum permitted power.

The heart of the NAS100+ is a microprocessor controlled, low phase noise, phase locked loop. This gives excellent audio performance whilst allowing total carrier frequency flexibility.

The signal from the PLL is amplified up to in excess of 100W by a broadband MOSFET stage. One advantage of this technique is a high level of tolerance to reflected power.

The audio input processors incorporate a Bessel anti-alias filter as well as a peak limiter. The user may also select the type of pre-emphasis applied to the audio.

Extensive telemetry functions allow all parameters to be read or programmed remotely, as well as allowing the front panel to be locked for non-secure locations.

Over line voltage, over SWR and over temperature protection are all standard.

Each NAS100+ comes complete with extensive documentation covering installation, use, maintenance and trouble shooting.

The NAS100+ is designed and manufactured in Australia and comes with a 3 year warranty.

SPECIFICATIONS

Output power	**0 to >100W continuous**
Carrier frequency	**70.000 to 77.500 MHz or 151.400 to 174.00MHz**
Channel spacing	**2.5 KHz**
Carrier stability	**<300Hz from nominal**
Modulation	**NBFM 5KHz peak deviation**
Audio response	**20Hz to 5KHz**
Pre-emphasis	**750, 75, 50uS or none**
Distortion	**<0.3%**
Audio SNR	**50dB typical**
Line voltage	**90-264VAC**
Line power	**<250VA**
Audio input level	**-10dBm to +10dBm**
Input impedance	**10K balanced**
Protection	**Over temperature Over line voltage Over SWR**
Dimensions	**Width 482mm Depth 270mm Height 134mm (3RU)**
Weight (approx)	**<8Kg**
Cooling	**Forced air**
Audio connector	**XLR female**
Input line connector	**IEC male**
Output RF connector	**N female**
Telemetry connector	**DB9 female**

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