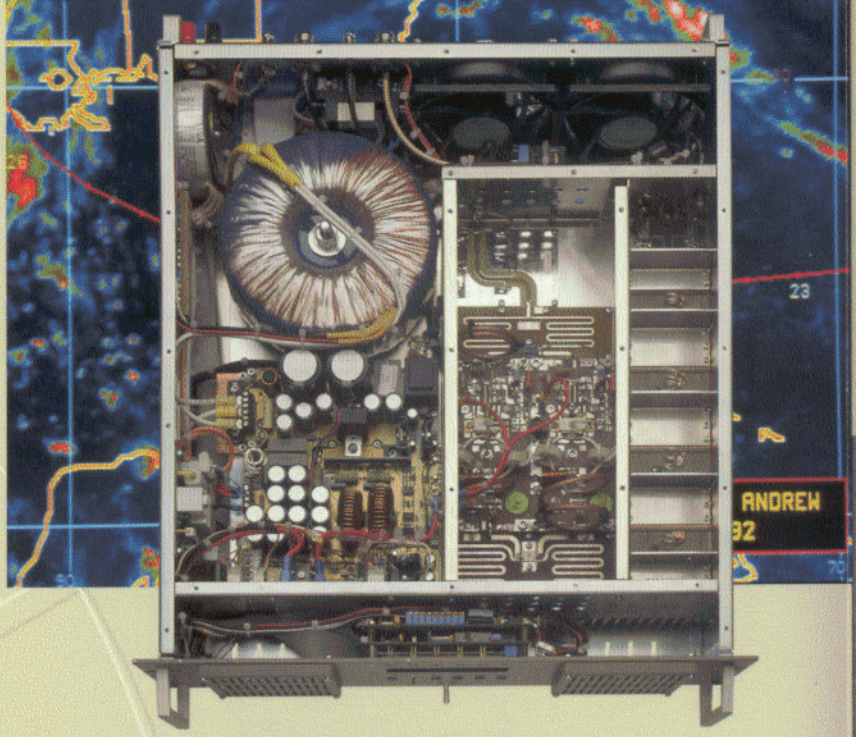
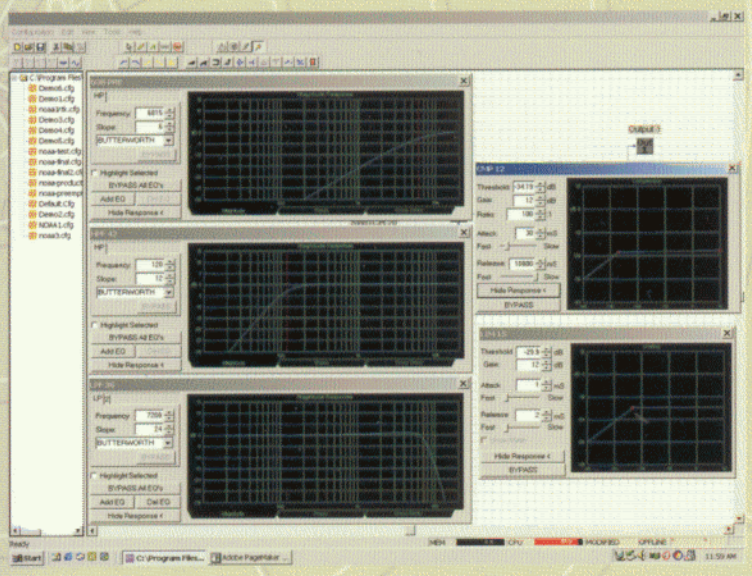
TODAY'S NEWEST TECHNOLOGY

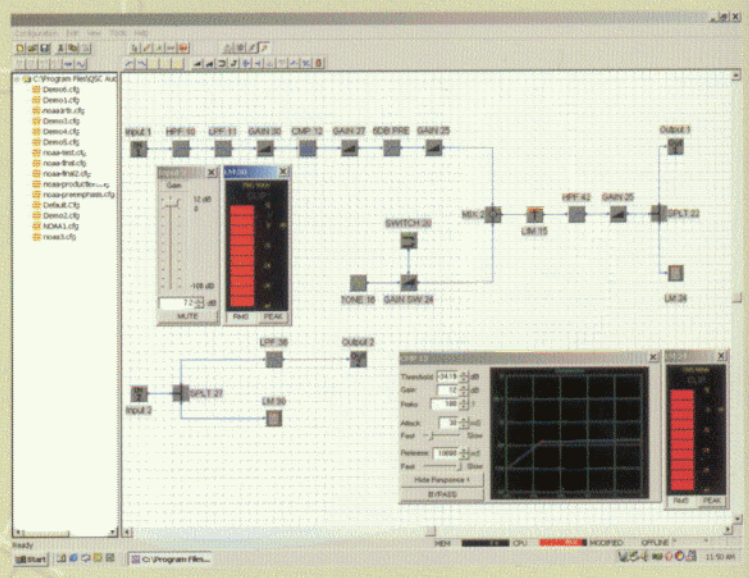
Each of our three flagship systems utilizes the latest technological innovations—and incorporates the dependability Armstrong products are known for. These microprocessor-controlled systems feature built-in redundancy and automatic switchover capability based on operator-selectable criteria. For cutting-edge systems that leave nothing to chance, while enhancing operator flexibility and control, the choice is Armstrong.



DIGITAL SOUND QUALITY

Digital audio processing in Armstrong NWR Transmitter Systems can make a life-saving difference in reception quality. In situations from everyday weather hazards to severe storms or disasters, clearer forecasts and emergency bulletins can dramatically improve preparedness. A well-informed community helps reduce the risk for first responders—and the overtasking of costly emergency resources.



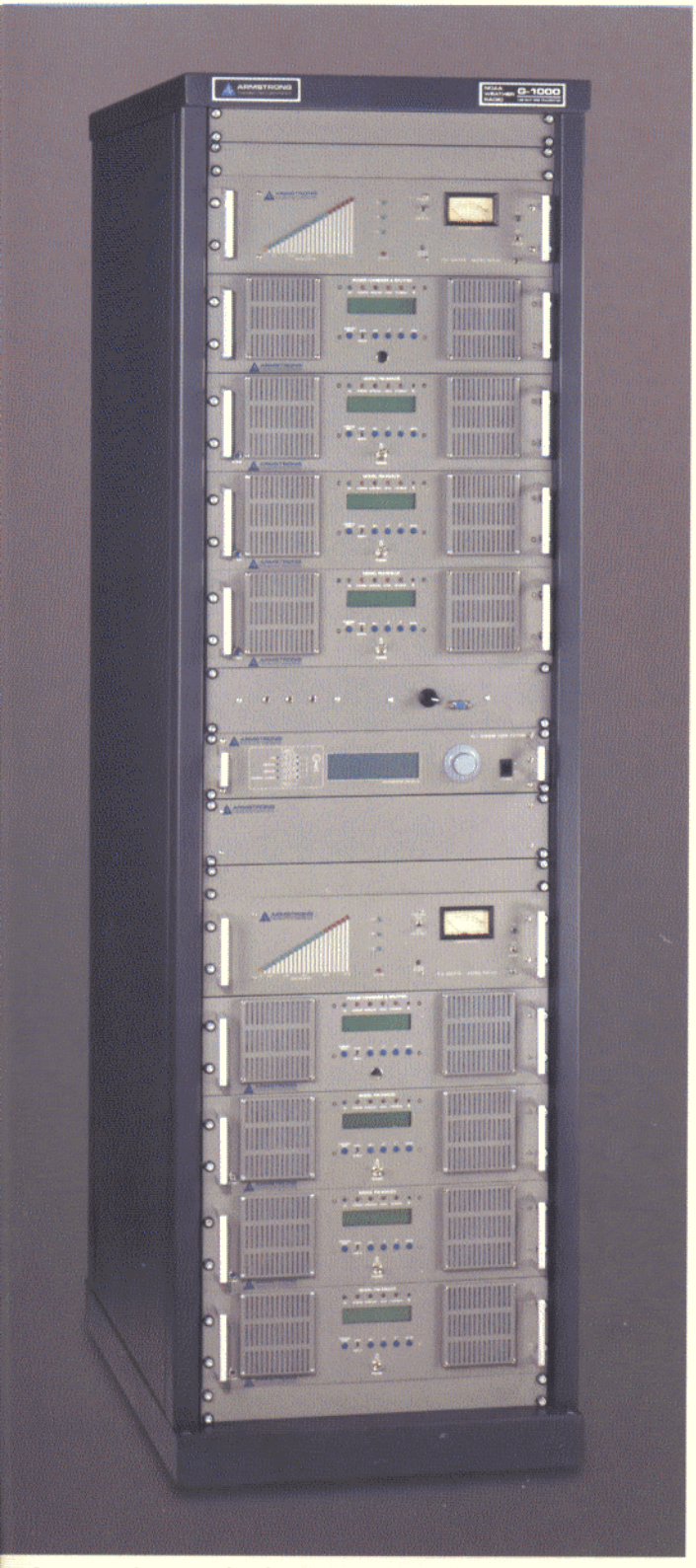


TOTAL SYSTEM INTEGRATION

Because every NOAA Weather Radio System installation has unique requirements, Armstrong provides all the items and services you need, from site survey to turn-key activation—or anything in between. Our total system integration expertise enables us to precisely anticipate and efficiently respond to your needs during all phases of implementation.

THE ARMSTRONG ADVANTAGE

- *Today's newest technology*
- *Digital sound quality*
- *Total system integration*



Armstrong G1000 Dual Redundant Weather Radio Transmitter System

ARMSTRONG NOAA WEATHER RADIO TRANSMITTER SYSTEMS

G100 125 watts
G300 375 watts
G1000 1,250 watts

• Built to ensure maximum signal integrity, Armstrong NWR Transmitter Systems are designed to keep NOAA life-saving messages on the air even in the most adverse conditions.

• Armstrong NOAA Weather Radio Transmitter Systems are available in three power levels of 125, 375, and 1,250 watts. Each of these dual-redundant NWR Transmitter Systems produces its designated output conservatively and reliably. Each system utilizes a pair of transmitters, one on-air and one in standby mode. All systems are equipped with innovative fail-safe features to assure continuous operation.

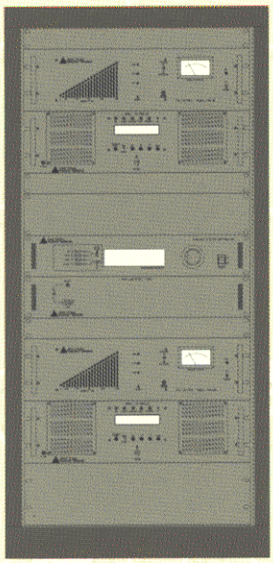
• To insure uninterrupted service, a microprocessor-based system controller monitors all system parameters and automatically switches to the standby transmitter should conditions warrant. All system parameters can be monitored and controlled remotely using a computer with a modem. Armstrong remote monitoring software is provided with each system.

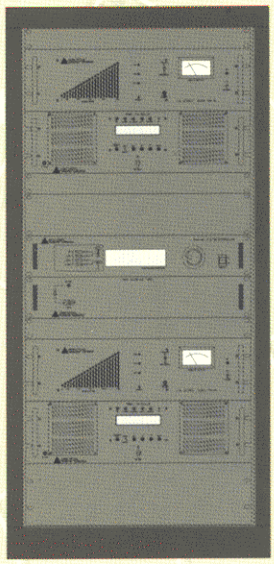
• To maximize systems integration across the NWR line—as well as reducing maintenance, parts, and life-cycle costs—all three systems are composed of modular subassemblies that are cross-compatible. Modules are easily accessible; parts are readily available; replacement is fast and simple.

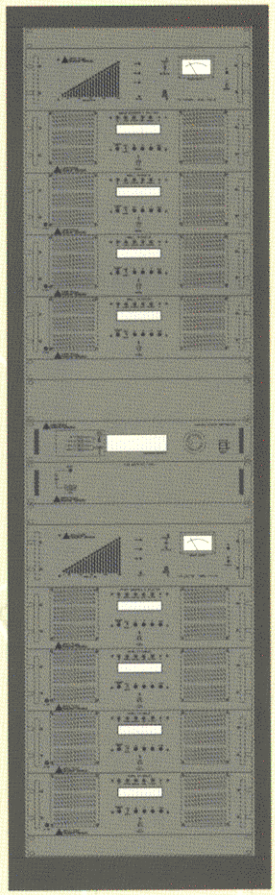
• All Armstrong Weather Radio Systems are certified by the National Weather Service for use in the NOAA Weather Radio Network and are backed by lifetime 24-hour technical support.

ARMSTRONG
TRANSMITTER CORPORATION

TECHNICAL SPECIFICATIONS







	G100	G300	G1000
Electrical:			
RF Power Output	125 Watt Continuously adjustable	375 Watt Continuously adjustable	1250 Watts Continuously adjustable
Frequency Range	162.400 to 162.550 in 12.5 kHz steps	162.400 to 162.550 in 12.5 kHz steps	162.400 to 162.550 in 12.5 kHz steps
Output Impedance	50 ohms Type N female	50 ohms Type N female	50 ohms Type 7/16 DIN female
Transmission Mode	FM	FM	FM
Audio Input	-20 to +5 dBm	-20 to +5 dBm	-20 to +5 dBm
Audio Response	200 Hz to 5 kHz, 6 dB/octave pre-emphasis	200 Hz to 5 kHz, 6 dB/octave pre-emphasis	200 Hz to 5 kHz, 6 dB/octave pre-emphasis
Maximum Deviation	+/- 5 kHz in 25 kHz ch. and +/- 2.5 kHz in 12.5 kHz ch.	+/- 5 kHz in 25 kHz ch. and +/- 2.5 kHz in 12.5 kHz ch.	+/- 5 kHz in 25 kHz ch. and +/- 2.5 kHz in 12.5 kHz ch.
Frequency Stability	Better than +/- 0.00025% from -30°C to +50°C	Better than +/- 0.00025% from -30°C to +50°C	Better than +/- 0.00025% from -30°C to +50°C
Audio Bandwidth	200 to 5000 Hz	200 to 5000 Hz	200 to 5000 Hz
Audio Distortion	Less than 1%	Less than 1%	Less than 1%
FM Hum and Noise	Less than -40 dB	Less than -40 dB	Less than -40 dB
AM Hum and Noise	Less than -40 dB (TIA/EIA-603)	Less than -40 dB (TIA/EIA-603)	Less than -40 dB (TIA/EIA-603)
Spurious and Harmonic Radiation	Less than -74 dB (TIA/EIA-603)	Less than -74 dB (TIA/EIA-603)	Less than -74 dB (TIA/EIA-603)
Output Bandpass Filtering	Dual Bandpass Cavity and 1/4 Wave Shorting Stub	Dual Bandpass Cavity and 1/4 Wave Shorting Stub	Dual Bandpass Cavity and 1/4 Wave Shorting Stub
VSWR	Up to 3:1 at any phase angle	Up to 3:1 at any phase angle	Up to 3:1 at any phase angle
Remote Diagnostics	Available through a modem on voice grade line with RS232 DTE with all the parameters	Available through a modem on voice grade line with RS232 DTE with all the parameters	Available through a modem on voice grade line with RS232 DTE with all the parameters
Local Visual Indicators	All operating parameters and status of all remotely sensed parameters/conditions	All operating parameters and status of all remotely sensed parameters/conditions	All operating parameters and status of all remotely sensed parameters/conditions
Primary Power	115/220 VAC +/-10%, 60 Hz +/-5%	115/220 VAC +/-10%, 60 Hz +/-5%	208-240 VAC +/-10%, 60 Hz +/-5%
Power Consumption	Less than 300 Watts at 100 Watt Output	Less than 700 Watts at 300 Watts output	Less than 2400 Watts at 1000 Watt Output
Cooling	Forced filtered air input with duct flange output. Filters replaceable without interruption of transmitter	Forced filtered air input with duct flange output. Filters replaceable without interruption of transmitter	Forced filtered air input with duct flange output. Filters replaceable without interruption of transmitter
Mechanical & Environmental:			
Operating Temperature	-30°C to +50°C	-30°C to +50°C	-30°C to +50°C
Humidity Range	95% max, non-condensing and in salt laden air	95% max, non-condensing and in salt laden air	95% max, non-condensing and in salt laden air
Altitude	12,000 feet	12,000 feet	12,000 feet
Size - In Single Cabinet	47" high x 23" wide x 32" deep in cabinet	47" high x 23" wide x 32" deep in cabinet	74" high x 23" wide x 32" deep in cabinet
In Dual Cabinet			47" high x 46" wide x 32" deep
Weight - Single Cabinet	450 lbs	460 lbs	800 lbs
Dual Cabinet			840 lbs

All units meet or exceed the requirements of NOAA Solicitation Number 50-DGNW-1-90015.

ARMSTRONG
TRANSMITTER CORPORATION

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