

Model AS03004
10 Volts Per Meter Package
80MHz-3GHz

The Model AS03004 is an equipment package designed for 61000-4-3 susceptibility testing applications requiring a field of 10 V/m at 3 meters with 80% AM modulation from 80 MHz to 3 GHz. It consists of modern, solid-state, broadband RF power amplifiers, dual directional couplers, a power meter, a system controller, a signal generator, wideband log periodic and horn antennas, an ultra-broadband electric field monitoring system, and interconnecting RF cables and connectors.

The system controller, SC1000M3, is an RF test system controller designed to facilitate susceptibility testing. This offers IEEE-488, RS-232, and manual control of the RF signal routing, and provides front panel indication via a 4-line vacuum fluorescent display.

The field monitor, FM7004, provides the operator with a digital readout of the electric field in the vicinity of the equipment under test (EUT).

Specific package components are listed in Table 1 and system layout and control racks are illustrated in Figures 1 and Figure 2 respectively.

Please refer to individual data sheets for more detailed specifications.

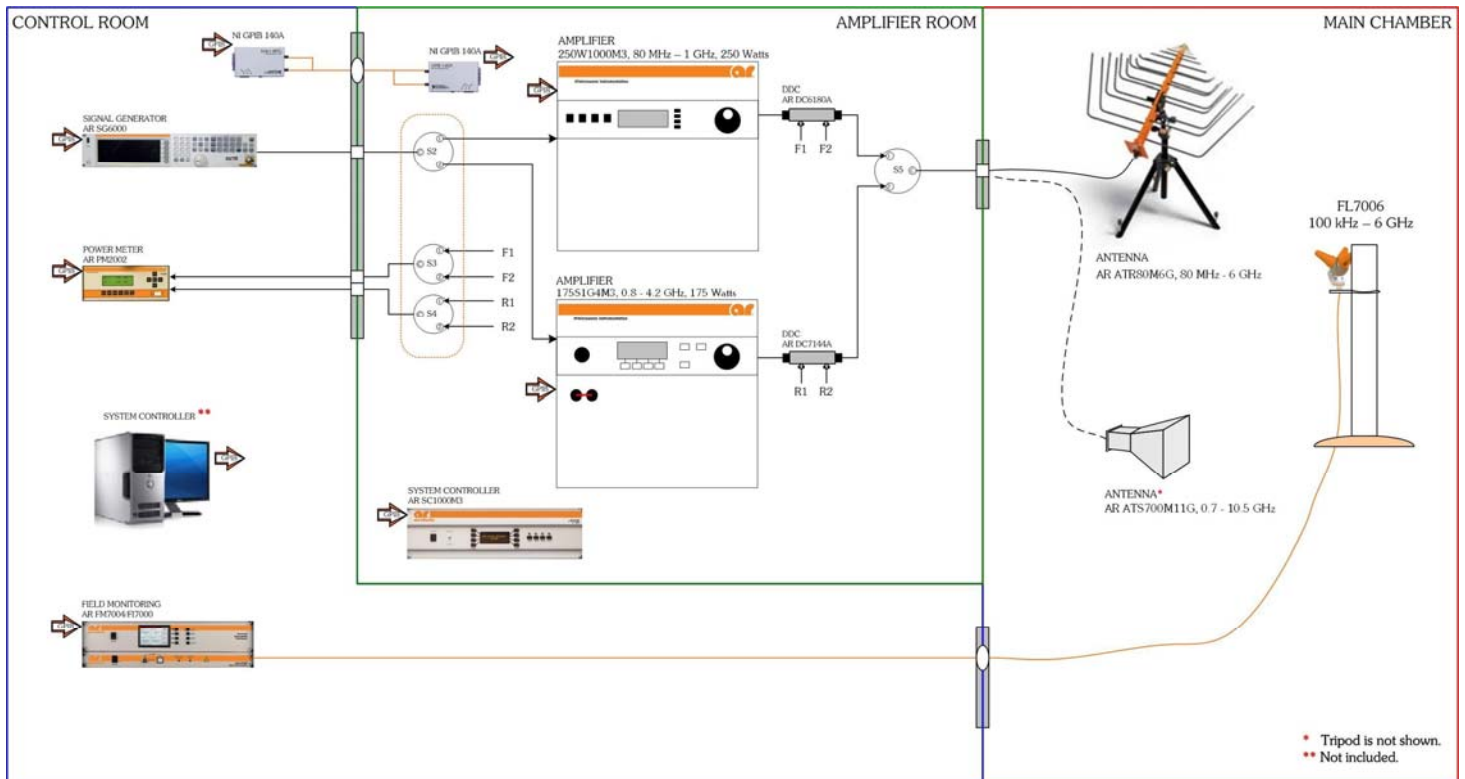


FIGURE 1 – MODEL AS03004 SYSTEM LAYOUT

* Tripod is not shown.
 ** Not included.

TABLE 1 – MODEL AS03004 SYSTEM COMPONENTS

Item	Description
1	Signal Generator <ul style="list-style-type: none"> • SG6000, 100 kHz to 6 GHz
2	Amplifiers <ul style="list-style-type: none"> • 250W1000AM3, 80 MHz to 1 GHz, 250 Watts • 175S1G4M3, 0.8 GHz to 4.2 GHz, 175 Watts
3	Antennas with Tripods <ul style="list-style-type: none"> • ATR80M6G, Log Periodic Antenna, 80 MHz to 6 GHz, 5000 Watts • ATS700M11G, Stacked Log Periodic Antenna, 0.7 GHz to 10.5 GHz, 300 Watts • TP1000B, Tripod (2 ea)
4	Power Monitoring System <ul style="list-style-type: none"> • PM2003, 3 Channel Power Meter, 10 kHz to 40 GHz • RM2000, 19" Rack Mount for Power Meter • PH2000 (2ea), Power Head, 10 kHz to 8 GHz • DC6180A, Dual Directional Coupler, 80 MHz to 1 GHz, 600 Watts • DC7144A, Dual Directional Coupler, 800 MHz to 4.2 GHz, 400 Watts
5	Field Monitoring System <ul style="list-style-type: none"> • FM7004M1 Field Monitor and FL7006/Kit M1 Laser Powered Probe • FL7006, Electric Field Laser Powered Probe, 100 kHz to 6 GHz, 0.5–800 V/m • PS2000 Probe Stand • CL2000 (3ea), Probe Clamp for Probe Stand
6	System Controller <ul style="list-style-type: none"> • SC1000M3, DC to 18 GHz
7	System Software <ul style="list-style-type: none"> • SW1007, Comprehensive EMC Test Software
8	System Accessories <ul style="list-style-type: none"> • 19" 20U Rack, System Control Rack (Control Room) • 19" 35U Rack, Amp Control Rack (Amp Room) • All internal interconnected cables between system components • GPIB-140A, National Instrument Fiberoptic GPIB Extender (2ea) • 1456-3, Weinchel Terminator, DC to 3 GHz, 1000 Watts • Cables (RF Cables, Fiberoptic Cables, Bulkheads, etc.)

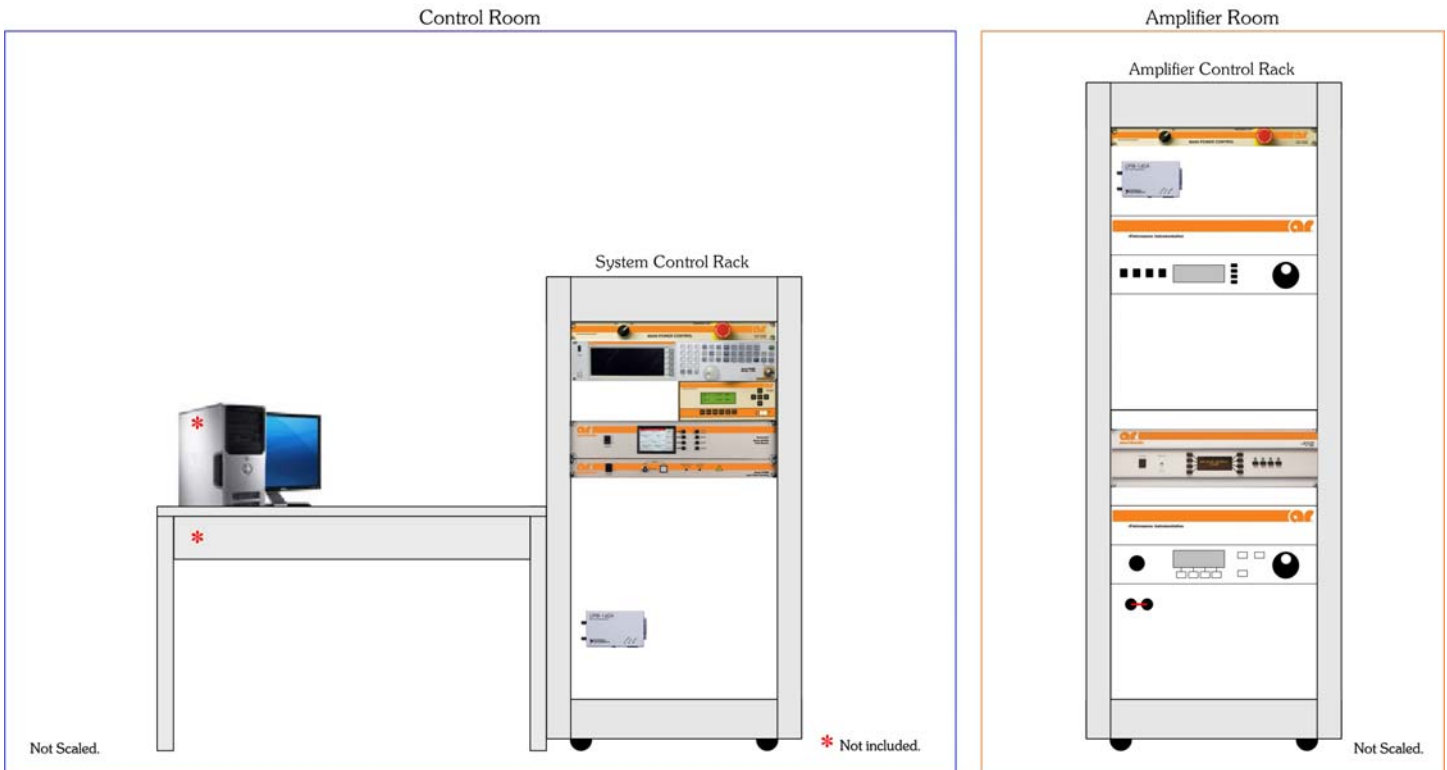


FIGURE 2 – MODEL AS03004 SYSTEM CONTROL AND AMPLIFIER CONTROL RACK