



User Manual for



D9300 Series  
Digital-Control Color Monitor

## SET UP

Setting up the Wells-Gardner D9300 monitor is easy. All you have to do is make a few simple connections and adjustments. The procedure is as follows:

### START UP

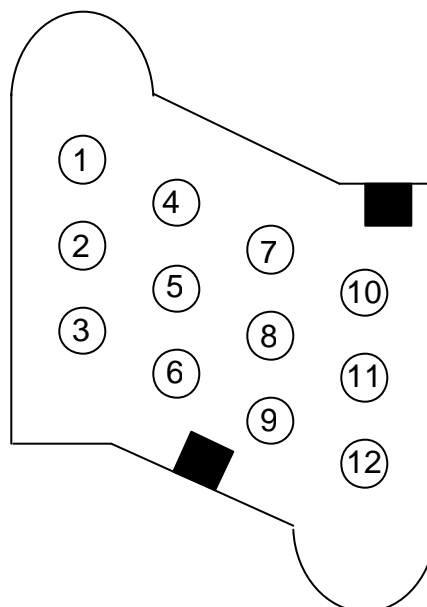
The monitor starts automatically when you connect to the power source.

### SINGLE CABLE CONNECTION

The monitor connects automatically as it is inserted into the cabinet. Use the standard extension cable (569106) to operate the monitor outside the cabinet.

### 12-PIN DRAWER PLUG (BEAU PLUG)

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	RED VIDEO	7	Touchscreen RX
2	GREEN Video	8	Touchscreen GND
3	BLUE Video	9	Touchscreen TX.
4	Video Ground	10	Mains (Hot)
5	V-SYNC	11	Mains (GND)
6	H-SYNC	12	Mains (Neut)



AMP 211759-1 Pin Locations - Connection View



## SPECIFICATIONS

### **Picture Tube**

- Size: 18V (17 inch diagonal)
- Dot Pitch: 0.25mm

### **Signal Input**

- Video Input: Analog, Positive Signal (0.7V p-p)
- Horizontal Sync: TTL Level, Positive or Negative Pulse
  - Scanning: 28 KHz-70KHz
- Vertical Input: TTL Level, Positive or Negative pulse
  - Scanning: 40-160Hz

### **Power Supply**

- Power Input: 120-240 VAC, 50/60Hz
- Fuse Rating: 250V, 3.15A
- Power Consumption
  - Normal: less than 130W

### **On Screen Display (OSD) Control:**

**OPERATING TEMPERATURE:** 0°C - 55°C

**OPERATING HUMIDITY:** 10% - 90% (Non-condensing)

**NET WEIGHT:** 17kg (37lbs) Standard frame

### **TECHNICAL FEATURES:**

Microprocessor control with OSD (On Screen Display) menu  
Microprocessor recognizes the input computer signal and the signal output from the customer control board, connected to the main board by a ribbon cable.

#### **Universal AC Input Voltage**

Power supply operates on 120-240 VAC at 60/50Hz for use all over the world.

#### **Protection Circuit for over-current**

When an over-current condition occurs in the circuit, the protection circuit operates in order to prevent the components from electrical shock or other risks.

#### **Override function**

A NO SIGNAL message is displayed on the screen if no signal is present at the signal input cable while the monitor is powered on.

#### **Control panel**

If you require different display characteristics other than the factory mode presets of size, position, color settings, use the control panel to program it to your requirements in each resolution mode. These adjusted settings remain in memory even if you change resolution mode or turn off the monitor.

#### **I<sup>2</sup>C BUS CONTROL**

The monitor is designed with I<sup>2</sup>C BUS control for simplifying the circuitry.  
The number of total components is less than 610 pieces.



## SAFETY PRECAUTIONS:

**WARNING:** *Persons not familiar with the necessary safety precautions on this unit should never attempt to service it.*

*The following safety precautions are necessary during servicing.*

1. Some parts, such as a picture tube in this unit, have special safety-related characteristics for X-RAY RADIATION protection. For continued safety, parts replacement should be undertaken referring to article (1-2 and 1-5).
2. Many electrical mechanical parts in this unit have special safety-related characteristics for protection against shock hazard and others. These characteristics are often unnoticed by visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts, which have these special characteristics, are identified in the service manual and supplements by shading on the schematic diagram and in the parts list. Before replacing any of these components, read the parts list in the service manual very carefully.
3. When replacing the chassis in the cabinet, always be certain that all the protective devices are properly installed, such as insulating covers, strain relief, etc.
4. Thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.
5. Before returning the monitor to EX stock, always perform an AC leakage current check on the exposed metallic parts, such as terminal screw heads, metal overlays, control shafts, etc.
  - a. To insure the set is safe to operate without danger of electrical shock, plug the AC line cord directly into a 120V AC outlet (do not use a line isolation transformer during this check).
    - i. Use an AC voltmeter having 5000 ohms per volt or more sensitivity in the following manner.
    - ii. Connect a 1500 $\Omega$ , 10w resistor, parallel with a 0.15 $\mu$ F capacitor.
  - b. Voltage measured must not exceed 0.3V RMS.  
This corresponds to 0.2mA AC.
    - i. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.
  - c. Reverse the AC plug in the AC outlet and repeat the AC voltage measurements for each exposed metallic part.