

Instruments' Default State

E3630A triple-output Power Supply (Manual PS):

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OUTPUT VOLTAGE OVERSHOOT (all outputs):
During turn-on or turn-off of ac power, **output plus overshoot** will **not** exceed 1 V if the output control is set for less than 1 V. If the control is set for 1 V or higher, there is **no overshoot**.

CONNECTING LOAD

Each load should be connected to the power supply output terminals using **separate pairs** of connecting wires. This will minimize mutual coupling effects between loads and takes full advantage of the low output impedance of the supply. Load wires must be of adequately heavy gauge to maintain satisfactory regulation at the load.

REVERSE VOLTAGE PROTECTION

A diode is connected across the output terminals with reverse polarity. This **diode protects** the output electrolytic capacitors and the series regulator transistors from the effects of a reverse voltage applied across the output terminals.

34401A Multimeter (DMM):

Reset state (default settings) @ **power on**.

54622A Oscilloscope (Scope):

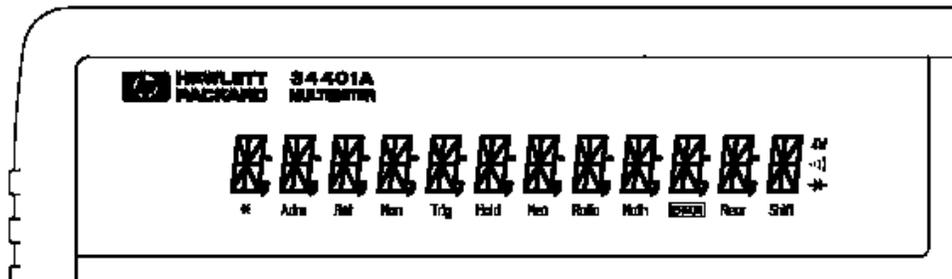
Default setting: **'Save/Recall'** key 'Default Setup' softkey

33220A Function/ARBitrary waveform generator (ARBgen):

Default setting: **'Store/Recall'** key 'Set to default' softkey

34401A Multimeter (DMM):

Display Annunciators



*	Turns on during a measurement.
Adrs	Multimeter is addressed to listen or talk over the HP-IB interface.
Rmt	Multimeter is in remote mode (remote interface).
Man	Multimeter is using manual ranging (autorange is disabled).
Trig	Multimeter is waiting for a single trigger or external trigger.
Hold	Reading Hold is enabled.
Mem	Turns on when reading memory is enabled.
Ratio	Multimeter is in dcV:dcV ratio function.
Math	A math operation is enabled (null, min-max, dB, dBm, or limit test).
ERROR	Hardware or remote interface command errors are detected.
Rear	Rear input terminals are selected.
Shift	"Shift" key has been pressed. <i>Press "Shift" again to turn off.</i>
ΔW	Multimeter is in 4-wire ohms function.
· ·	Multimeter is in continuity test function.
→ 	Multimeter is in diode test function.

To review the display annunciators, hold down the key as you turn on the multimeter.

Power-On and Reset State

The parameters marked with a bullet (•) are stored in *non-volatile* memory. The factory settings are shown.

<p>Measurement Configuration</p> <ul style="list-style-type: none"> AC Filter Autozero • Continuity Threshold Function Input Resistance Integration Time Range Resolution 	<p>Power-On/Reset State</p> <ul style="list-style-type: none"> 20 Hz (medium filter) On • 10 Ω DC volts 10 MΩ (<i>fixed for all dcv ranges</i>) 10 PLCs Autorange 5½ digits, slow mode
<p>Math Operations</p> <ul style="list-style-type: none"> Math State, Function Math Registers • dBm Reference Resistance 	<p>Power-On/Reset State</p> <ul style="list-style-type: none"> Off, Null All registers are cleared • 600 Ω
<p>Triggering Operations</p> <ul style="list-style-type: none"> Reading Hold Threshold Samples Per Trigger Trigger Delay Trigger Source 	<p>Power-On/Reset State</p> <ul style="list-style-type: none"> 0.10% of range 1 sample Automatic Delay Auto Trigger
<p>System-Related Operations</p> <ul style="list-style-type: none"> • Beeper Mode • Comma Separators Display Mode Reading Memory 	<p>Power-On/Reset State</p> <ul style="list-style-type: none"> • On • On On Off (cleared)
<p>Input/Output Configuration</p> <ul style="list-style-type: none"> • Baud Rate • HP-IB Address • Interface • Language • Parity 	<p>Power-On/Reset State</p> <ul style="list-style-type: none"> • 9600 baud • 22 • HP-IB (IEEE-488) • SCPI • Even (7 data bits)
<p>Calibration</p> <ul style="list-style-type: none"> • Calibration State 	<p>Power-On/Reset State</p> <ul style="list-style-type: none"> • Secured

54622A Oscilloscope (Scope):



To apply the default factory configuration

- To set the instrument to the factory-default configuration, press the **Save/Recall** key, then press the **Default Setup** softkey.

The default configuration returns the oscilloscope to its default settings. This places the oscilloscope in a known operating condition. The major default settings are:

Horizontal main mode, 100 us/div scale, 0 s delay, center time reference

Vertical (Analog) Channel 1 on, 5 V/div scale, dc coupling, 0 V position, 1 M Ω impedance, probe factor to 1.0 if an AutoProbe probe is not connected to the channel

Trigger Edge trigger, Auto sweep mode, 0 V level, channel 1 source, dc coupling, rising edge slope, 60 ns holdoff time

Display Vectors on, 20% grid intensity, infinite persistence off

Other Acquire mode normal, Run/Stop to Run, cursors and measurements off

Labels all custom labels in the Label Library are erased

33220A Function/ARbitrary waveform generator (ARBgen):

Agilent 33220A Factory Default Settings

Output Configuration	Factory Setting
Function	Sine wave
Frequency	1 kHz
Amplitude / Offset	100 mVpp / 0.000 Vdc
Output Units	Vpp
Output Termination	50 Ω
Autorange	On
Modulation	Factory Setting
Carrier (AM, FM, PM, FSK)	1 kHz Sine wave
Carrier (PWM)	1 kHz Pulse
Mod. Waveform (AM)	100 Hz Sine wave
Mod. Waveform (FM, PM, PWM)	10 Hz Sine wave
AM Depth	100%
FM Deviation	100 Hz
PM Deviation	180 degrees
FSK Hop Frequency	100 Hz
FSK Rate	10 Hz
PWM Width Deviation	10 μ s
Modulation State	Off
Sweep	Factory Setting
Start / Stop Frequency	100 Hz / 1 kHz
Sweep Time	1 Second
Sweep Mode	Linear
Sweep State	Off
Burst	Factory Setting
Burst Count	1 Cycle
Burst Period	10 ms
Burst Start Phase	0 degrees
Burst State	Off
System-Related Operations	Factory Setting
• Power-Down Recall	• Disabled
Display Mode	On
Error Queue	Errors are Cleared
Stored States, Stored Arbs	No Change
Output State	Off
Triggering Operations	Factory Setting
Trigger Source	Internal (Immediate)
Remote Interface Configuration	Factory Setting
• GPIB Address	• 10
• DHCP	• On
• IP Address	• 169.254.002.020
• Subnet Mask	• 255.255.000.000
• Default Gateway	• 000.000.000.000
• DNS Server	• 000.000.000.000
• Host Name	• none
• Domain Name	• none
Calibration	Factory Setting
Calibration State	Secured



'Store/Recall' key

'Set to default' softkey

Parameters marked with a bullet (•) are stored in *non-volatile* memory.