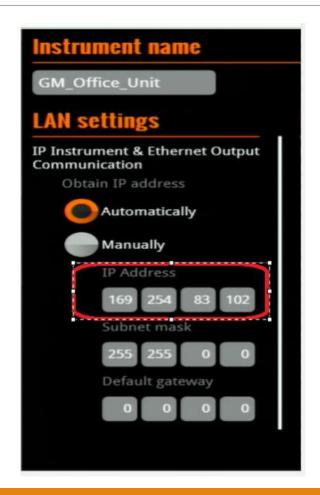
What is a 169.254.x.x IP Address?

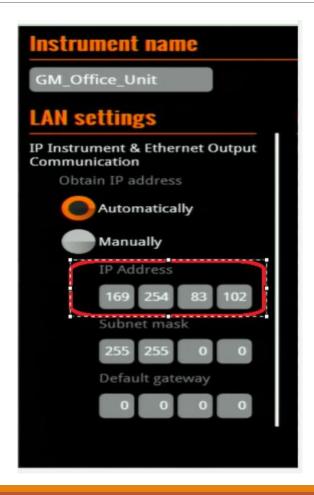
What is a 169.254.x.x IP Address?

 When a device on a network fails to obtain an IP address from a DHCP server (such as your router), it may automatically assign itself an address in the 169.254.0.0/16 range. This behavior is known as APIPA, or Automatic Private IP Addressing.



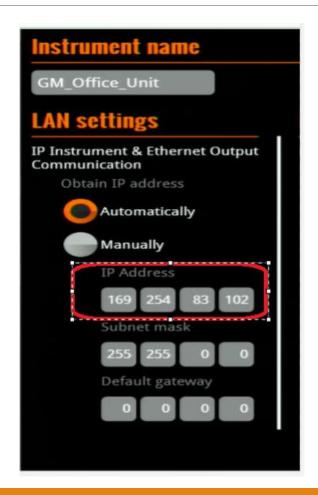
Why Devices Use This IP Range

- The 169.254.x.x range is reserved specifically for local link communication when no IP address can be acquired. Devices assign themselves an address in this range when:
 - A DHCP server is not reachable
 - · There is no static IP configured
 - The device still wants to attempt basic local communication
- It's generally used as a fallback or fail-safe mechanism



Common Scenarios Where This Appears

- A SLS is powered on but not properly connected to a network.
- A SLS is plugged into Ethernet, but the cable is faulty or the network switch is down.
- A SLS boots before the router is available.
- A SLS falls back to this APIPA when DHCP fails.



What To Do When You See It

- If you observe that an SLS has a 169.254.x.x IP address, it typically indicates a network configuration issue. Use the following steps to assist onsite technicians with troubleshooting:
- Check physical connections (Ethernet cable, switch).
- Ensure the DHCP server (router) is running.
- Restart the device.
- Check for Subnet misconfiguration
- Check for IP conflicts.
- Assign a static IP manually if appropriate.

