

How to Connect AEM UEGO Wideband 30-4100 to SCT Tuner using SCT Analog Cable 9608.

What's Required

Diagram from AEM

RED (Power) - Connect to a switched 10-18 volt power source utilizing a 10A fuse.

BLACK (Ground) - Connect to a clean power ground.

WHITE (Analog Output) - Connects to any Stand Alone ECU unit that accepts a 0-5 volt input.

BLUE (Serial Output)(optional hookup) - Connects to a RS-232 com port for hyper-terminal data logging.



Diagram from SCT

Black - General Ground

Orange - Analog Input #1

Blue - Analog Input Ground #1

Red - Analog Input #2

Green - Analog Input Ground #2



Connect AEM White to SCT Orange |
Connect AEM Black to Vehicle Ground
and SCT BLUE

AEM Wideband Formula in Air Fuel Ratio = $(v \times 2) + 10$

AEM Wideband Formula in Lambda = $(v \times 0.078557) + 0.751$

If you have any ground offsets, add or subtract them from the voltage (v). For example, for a .125 voltage offset, $((v - .125) \times 2) + 10$. Your gauge should match the reading on the tuner/livelink exactly.