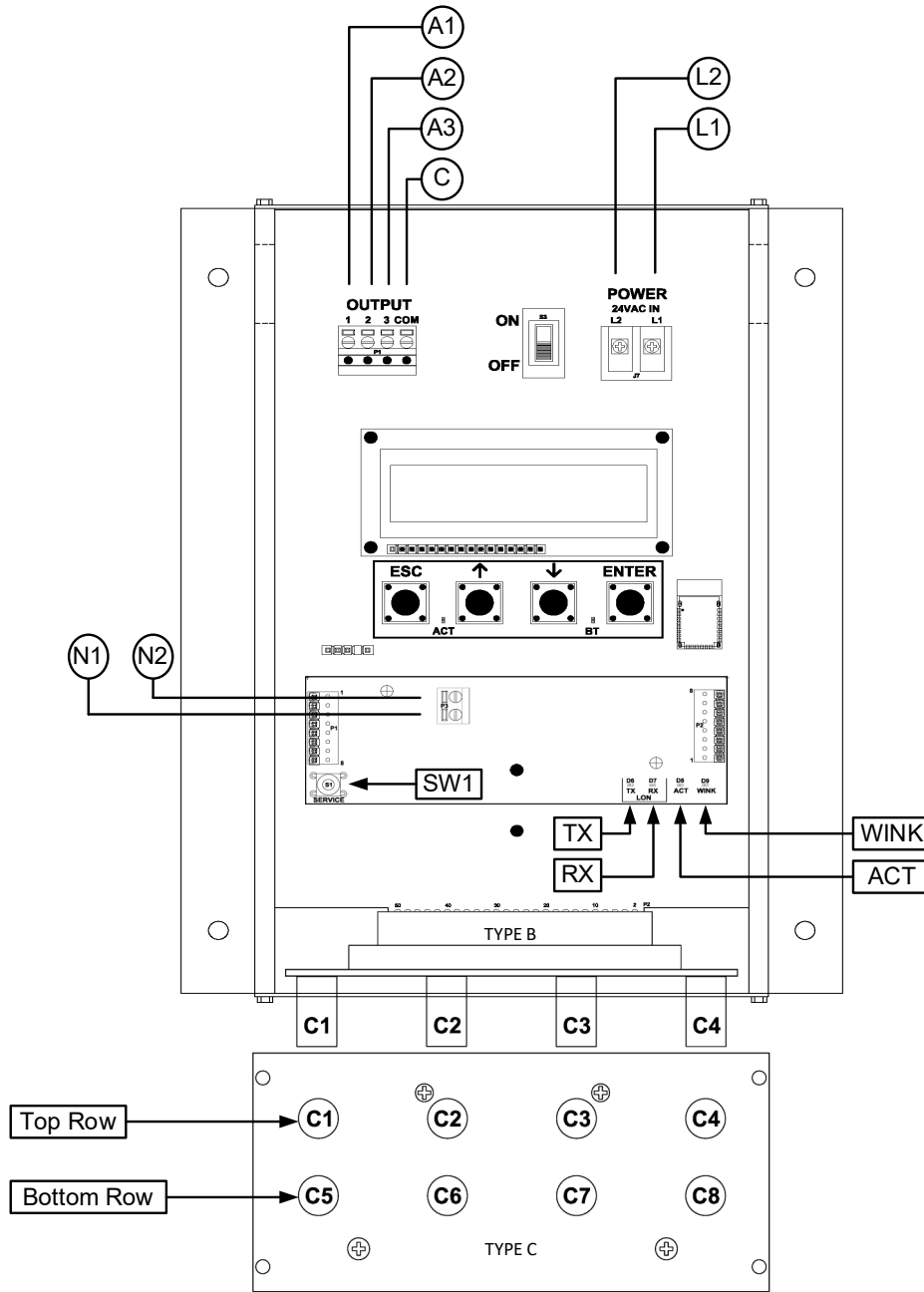


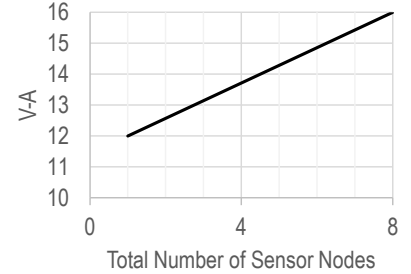
# Advantage IV (A4) GTF108e-F WIRING GUIDE



## TRANSMITTER CONNECTIONS

Power		Analog Out (isolated)				Lon Network		Type	
L1	L2	A1	A2	A3	C	N1	N2	B	C
24 VAC (hot)	24 VAC (neutral)	Airflow +	Temperature or Alarm +	N/A	Signal Common	Network Pair (1 of 2)	Network Pair (2 of 2)	4 probes x 1 sensor/probe	8 probes x 1 sensor/probe

## V-A REQUIREMENT @ 24 VAC



## INSTRUCTIONS TO INSTALLER:

- Mount the transmitter in a location where all probe cables can reach the receptacles of the transmitter. Provide a weatherproof enclosure (by others) and mount away from direct sunlight when outdoor mounting is required.
- Connect the sensor probes to the transmitter. Although probes are "plug and play" and connections to specific receptacles are not required, it is recommended that probes are connected Probe 1 to receptacle C1, Probe 2 to receptacle C2, etc. Probe numbers are indicated on each cable hang tag.
  - ⚠ Fan array models (-F/An) must follow this convention if two probes are located in each fan inlet and the individual fan airflow rates are required and/or the fan alarm is enabled (i.e. put probes for fan 1 in C1 and C2, fan 2 in C3 and C4, etc.).
  - ⓘ Cables have an FEP plenum rated jacket that are UV tolerant and suitable for operation over the entire operating temperature range of the device.
  - ⚠ Sensor probe plugs are keyed and NOT twist-lock. Align the key and push the plug onto the transmitter receptacle. Twisting may damage the connector pins.
- Select a 24 VAC transformer that provides 22.8 to 26.4 VAC during operation. Refer to the chart above to optimize the transformer size or size the transformer for 16 V-A for each measurement location.
  - ⚠ Multiple transmitters wired to a single transformer must be wired "in-phase" (L1 to L1 and L2 to L2).
- If analog output signals are used, continue to step 5, otherwise skip to step 6.
- Connect each analog output signal required to the host B.A.S. using shielded twisted-pair wire. Properly terminate the shield (typically at the B.A.S.).
  - ⚠ If twisted pair wire and/or shielded cable is not used, extraneous electrical noise can be picked up between the transmitter and host control panel.
- If the LON network connection is required continue to step 7, otherwise skip to 8.
- Connect to a LonWorks Free Topology network.
  - ⓘ The network termination is polarity insensitive.
  - ⚠ Use the network cable specified by Echelon (typically Belden 8471 cable or equivalent).
- Refer to the GTF108e-F Startup Guide prior to moving the power switch to the "ON" position.