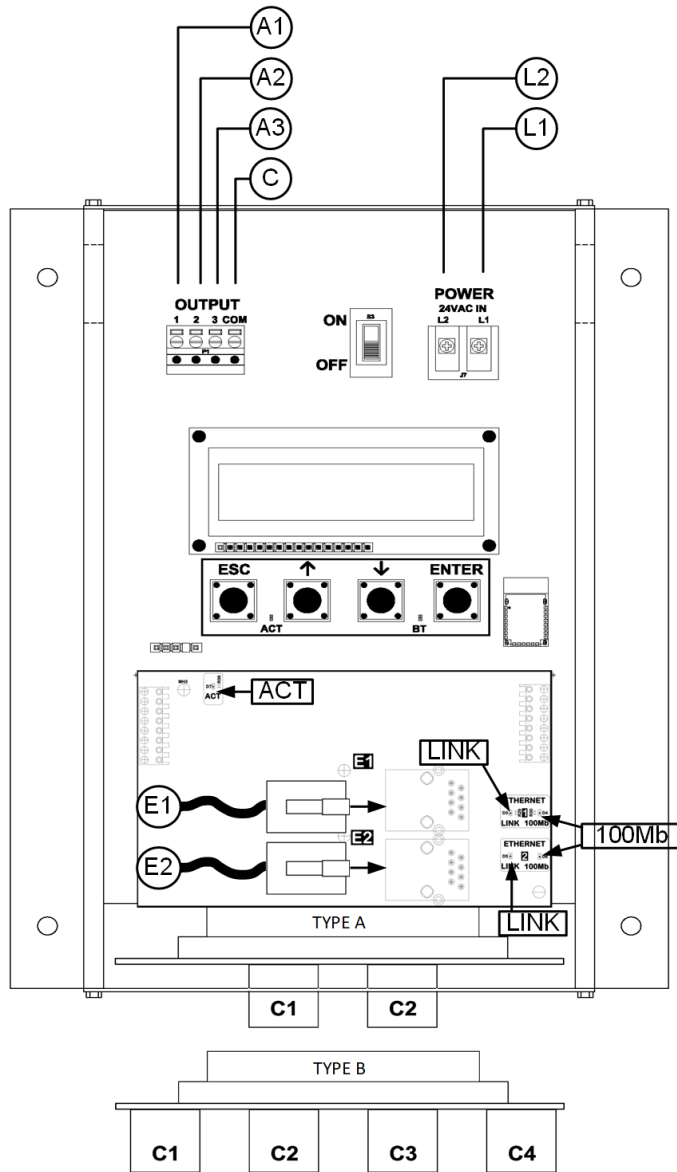


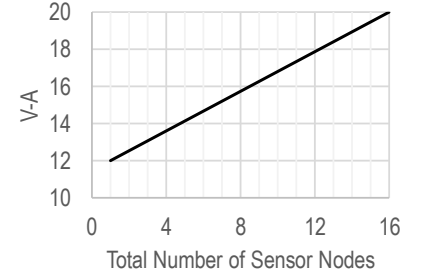
Advantage IV (A4) GTS116e-P WIRING GUIDE



TRANSMITTER CONNECTIONS

Power		Analog Out (isolated)			Ethernet		Type		
L1	L2	A1	A2	A3	C	E1	E2	A	B
24 VAC (hot)	24 VAC (neutral)	Airflow +	Temperature or Alarm +	Psychrometric Property +	Signal Common	RJ-45 CAT5 or greater	RJ-45 CAT5 or greater	2 probes x 8 sensors/probe	4 probes x 4 sensors/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.
 - i* 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 20 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.).
 - i* AO3 (relative humidity, enthalpy, or dew point) is only available if the /H humidify sensor option is provided.
 - !* 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 Ethernet connection and DUAL mode is required continue to step 7, otherwise skip to step 9.
- Connect to EB-Bus Ethernet network in E1 port, if required, using a standard RJ-45 terminated Ethernet cable, CAT5 or greater.
 - i* In DUAL mode E1 port is only for EB-Bus network connection.
- Connect to an Ethernet network (BACnet Ethernet, BACnet IP, Modbus TCP, TCP/IP) in E2 port, if required, using a standard RJ-45 terminated Ethernet cable, CAT5 or greater.
- If Ethernet connection and DAISY CHAIN mode is required continue to step 10, otherwise skip to step 11.

10. Connect to an Ethernet network (BACnet Ethernet, BACnet IP, Modbus TCP, TCP/IP or *EB-Bus*) in E1 and/or E2 ports, if required, using a standard RJ-45 terminated Ethernet cable, CAT5 or greater.

 *If only one connection required, either E1 or E2 can be used.*

 *Use of improperly wired RJ-45 connectors may damage the Ethernet output circuit of the transmitter.*

11. Refer to the *GTS116e-P Startup Guide* prior to moving the power switch to the "ON" position.