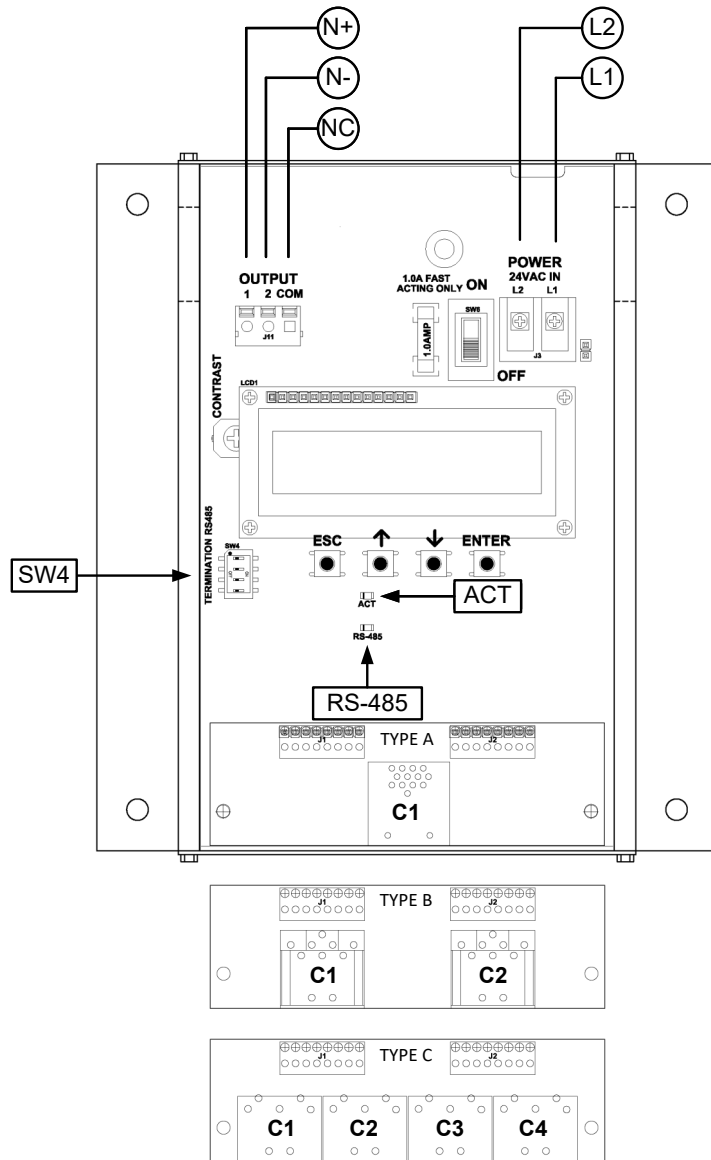


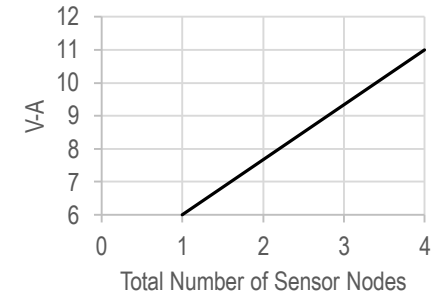
Advantage IV (A4) HTN104-P WIRING GUIDE



TRANSMITTER CONNECTIONS

Power		RS-485 (isolated)			Type		
L1	L2	N+	N-	NC	A	B	C
24 VAC (hot)	24 VAC (neutral)	Network +	Network -	Network Common	1 probe x 4 sensors/probe	2 probes x 2 sensors/probe	4 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.
 - 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 11 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 the RS-485 connection is required continue to step 5, otherwise skip to step 7.
- Connect to an RS-485 network (BACnet MS/TP or Modbus RTU), if required, using a 3-conductor network cable meeting the corresponding BACnet or Modbus standards. Ensure that all three connections, N+, N- and NC are connected.
 - !* If a 2-conductor network cable or other non-conforming cable is used, network speed, length and reliability may be compromised or network failure may occur.
- If the transmitter is the first device on the network run, configure SW4 on the output card for “failsafe-bias”. If the transmitter is the last device on the network run, configure SW4 for “end-of-line”. Otherwise, configure SW4 for no termination (default).

SW4 - RS-485 TERMINATION DIP SWITCH POSITIONS

1	2	3	4	TERMINATION
OFF	OFF	OFF	OFF	No termination (default)
OFF	ON	ON	OFF	End of Line
ON	OFF	OFF	ON	Fail-Safe Bias

- Refer to the HTN104-P Startup Guide prior to moving the power switch to the “ON” position.