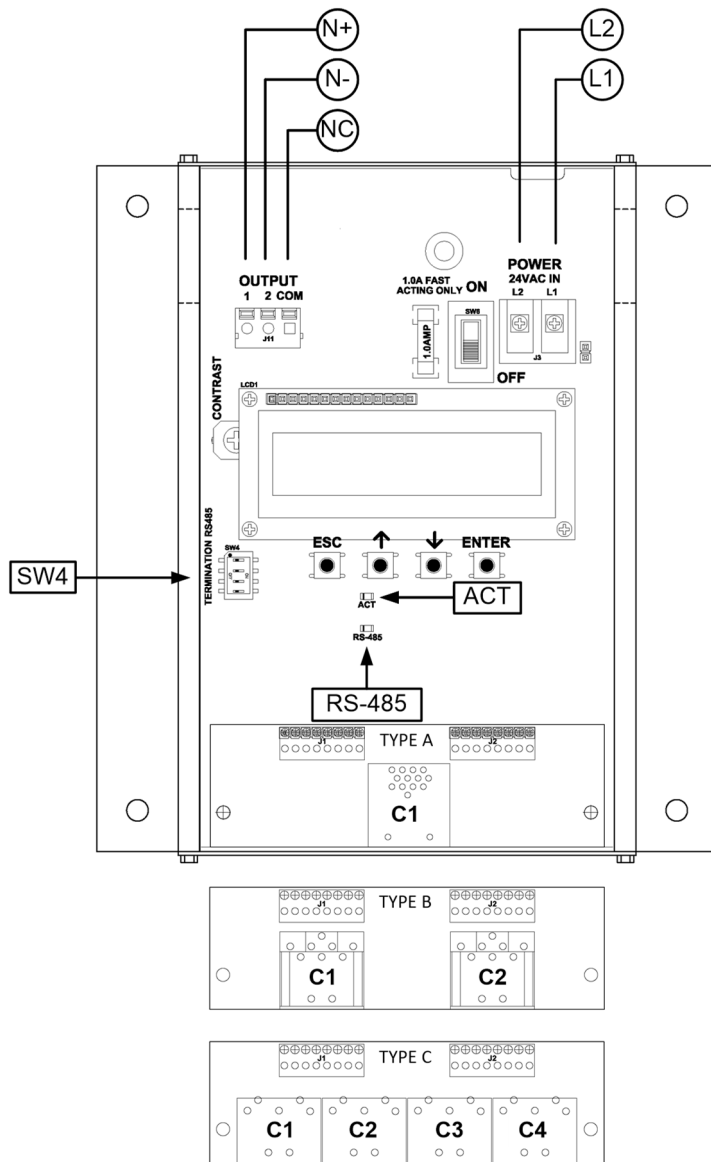


# Advantage IV (A4) HTN104-B WIRING GUIDE



## TRANSMITTER CONNECTIONS

Power		RS-485 (isolated)			Connector Type B	
L1	L2	N+	N-	NC	C1	C2
24 VAC (hot)	24 VAC (neutral)	Network +	Network -	Network Common	Bleed Sensor	Not Used

### INSTRUCTIONS TO INSTALLER:

- Mount the transmitter in a location where the bleed sensor cable can reach the receptacle of the transmitter. Provide a weatherproof enclosure (by others) and mount away from direct sunlight when outdoor mounting is required.
  - Connect the bleed sensor cable to connector C1 of the transmitter. Connector C2 is not used in this configuration.
- (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. Size the transformer for 8 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 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-B Startup Guide prior to moving the power switch to the "ON" position.