



Project Name		
Engineer		
Contractor		
<input type="checkbox"/> SCHEDULE ATTACHED		
Item #	Tag ID	
Probe Length	Adj. Side Length	Internal Insulation

Refer to attached SCHEDULE for table details if  button is checked in any of the tables

<input type="radio"/> BASE MODEL
<input type="checkbox"/> GTC116-P
<input type="checkbox"/> GTM116-P
<input type="checkbox"/> GTL116-P
<input type="checkbox"/> GTD116-P
<input type="checkbox"/> Other _____

<input type="radio"/> PROBES & SENSOR NODES	
<input type="checkbox"/> P+ Density (see density table, next page)	
<input type="checkbox"/> Custom	Probes: ____
	Nodes/Probe: ____
<input type="checkbox"/> Custom meets or exceeds P+ density	

<input checked="" type="checkbox"/> AVERAGING
<input checked="" type="checkbox"/> Airflow: Independent, arithmetic average
<input checked="" type="checkbox"/> Temperature: Independent, field selectable, velocity weighted (default) or arithmetic average

LISTINGS
<input checked="" type="checkbox"/> UL 873
<input checked="" type="checkbox"/> BTL (GTC116 and GTM116)
<input type="checkbox"/> CE (European shipments only)
<input type="checkbox"/> Other _____

<input type="radio"/> INDIVIDUAL SENSING NODES	
HOUSING	<input type="checkbox"/> Glass-filled polypropylene (std.)
	<input type="checkbox"/> Solid Kynar (/SS option)
THERMISTORS	<input checked="" type="checkbox"/> Self-heated sensor: Hermetically-sealed bead-in-glass thermistor probe
	<input checked="" type="checkbox"/> Temperature sensor: Hermetically-sealed bead-in-glass thermistor probe
INTERNAL WIRING	<input checked="" type="checkbox"/> Kynar coated copper
AIRFLOW MEASUREMENT	<input checked="" type="checkbox"/> Accuracy: ±2% of reading
	<input checked="" type="checkbox"/> Calibrated range: 0 to 5,000 fpm
	<input checked="" type="checkbox"/> Calibration points: 16
	<input checked="" type="checkbox"/> NIST-traceable calibration
TEMPERATURE MEASUREMENT	<input checked="" type="checkbox"/> Accuracy: ±0.15°F
	<input checked="" type="checkbox"/> Calibrated range: -20 to 160°F
	<input checked="" type="checkbox"/> Calibration points: 3
	<input checked="" type="checkbox"/> NIST-traceable calibration

<input checked="" type="checkbox"/> PROBE ENVIRONMENTAL LIMITS	
TEMPERATURE	
Probe	<input checked="" type="checkbox"/> -20 to 160°F
Transmitter	<input checked="" type="checkbox"/> -20 to 120°F
HUMIDITY (non-condensing)	
Probe	<input checked="" type="checkbox"/> 0 to 100%
Transmitter	<input checked="" type="checkbox"/> 5 to 95%

○ P+ SENSOR DENSITY TABLE (# Probes/# Sensor nodes per probe)

		Probe Length (inches)																						
		□ 6	□ 8	□ 10	□ 12	□ 14	□ 16	□ 18	□ 20	□ 22	□ 24	□ 30	□ 36	□ 42	□ 48	□ 54	□ 60	□ 66	□ 72	□ 84	□ 96	□ 108	□ 120	
Round >		<u>1/1</u>	1/1	1/1	<u>1/2</u>	2/2	2/2	2/2	2/4	2/4	2/4	2/4	2/4	2/6	2/8	2/8	2/8	2/8	4/4	4/4	4/4	4/4	4/4	
Flat Oval >	All flat ovals are custom. Contact EBTRON or your representative for information on flat ovals.																							
Square/Rectangle Adjacent Side Length (inches)	□6	<u>1/1</u>	1/1	1/1	1/1	1/2	1/2	1/2	1/2	1/2	1/2	1/4	1/4	1/4	1/4	1/6	1/6	1/6	1/6	1/6	1/6	1/8	1/8	
	□8	<u>1/1</u>	1/1	1/1	<u>1/2</u>	1/2	1/2	1/2	1/4	1/4	1/4	1/4	1/4	1/6	1/6	1/6	1/6	1/6	1/6	1/8	1/8	1/8	1/8	
	□10	<u>1/1</u>	1/1	1/1	<u>1/2</u>	1/2	1/3	<u>1/4</u>	1/4	1/4	1/4	1/6	1/6	1/6	1/6	1/6	1/8	1/8	1/8	1/8	1/8	1/8	1/8	
	□12	<u>1/1</u>	1/1	1/1	<u>1/2</u>	<u>1/3</u>	1/3	<u>1/4</u>	1/4	1/4	1/4	1/6	1/6	1/6	1/6	1/8	1/8	1/8	1/8	1/8	1/8	1/8	2/6	2/6
	□14	<u>2/1</u>	2/1	2/1	<u>2/2</u>	2/2	2/2	2/2	2/2	2/2	<u>2/3</u>	<u>2/3</u>	1/6	1/6	1/8	1/8	1/8	1/8	1/8	1/8	1/8	2/6	2/6	2/6
	□16	<u>2/1</u>	2/1	3/1	<u>2/2</u>	2/2	2/2	2/2	2/3	2/3	2/3	2/3	1/6	1/6	1/8	1/8	1/8	1/8	1/8	1/8	1/8	2/6	2/6	2/6
	□18	<u>2/1</u>	2/1	3/1	<u>2/2</u>	2/2	2/2	2/3	2/3	2/3	2/3	2/3	1/6	1/8	1/8	1/8	1/8	1/8	1/8	2/6	2/6	2/6	2/6	2/7
	□20	<u>2/1</u>	3/1	3/1	<u>2/2</u>	2/2	2/3	2/3	2/3	2/3	2/3	2/3	2/4	1/8	1/8	1/8	1/8	2/6	2/6	2/6	2/6	2/6	2/7	2/8
	□22	<u>2/1</u>	3/1	3/1	<u>2/2</u>	3/2	2/3	2/3	2/3	2/3	2/3	2/3	2/4	1/8	1/8	1/8	2/6	2/6	2/6	2/6	2/6	2/7	2/8	2/8
	□24	<u>2/1</u>	4/1	4/1	<u>2/2</u>	3/2	2/3	2/3	2/3	2/3	2/3	2/3	2/4	2/4	1/8	1/8	2/6	2/6	2/6	2/6	2/6	2/7	2/8	2/8
	□30	<u>4/1</u>	4/1	4/1	<u>3/2</u>	3/2	3/2	3/2	2/4	2/4	2/4	2/4	2/4	2/4	2/6	2/6	2/6	2/6	2/7	2/7	2/8	2/8	2/8	2/8
	□36	<u>4/1</u>	4/1	4/1	<u>3/2</u>	3/2	3/2	4/2	4/2	4/2	4/2	2/4	2/4	2/6	2/6	2/6	2/6	2/7	2/8	2/8	2/8	2/8	2/8	2/8
	□42	<u>4/1</u>	4/1	4/1	<u>3/2</u>	4/2	4/2	4/2	4/2	4/2	4/2	4/2	2/6	2/6	2/7	2/7	2/8	2/8	2/8	2/8	2/8	2/8	2/8	2/8
	□48	<u>4/1</u>	4/1	4/1	<u>3/2</u>	4/2	4/2	4/2	4/2	4/2	4/2	4/2	3/4	2/6	2/7	2/8	2/8	2/8	2/8	2/8	2/8	2/8	2/8	2/8
	□54	<u>4/1</u>	4/1	4/1	<u>4/2</u>	4/2	4/2	4/2	4/2	3/4	3/4	3/4	3/4	2/7	2/8	2/8	2/8	2/8	2/8	4/4	2/8	2/8	2/8	2/8
	□60	<u>4/1</u>	4/1	4/1	<u>4/2</u>	4/2	4/2	4/2	4/2	3/4	3/4	3/4	4/4	4/4	4/4	2/8	2/8	2/8	4/4	4/4	4/4	4/4	2/8	2/8
□66	<u>4/1</u>	4/1	4/1	<u>4/2</u>	4/2	4/2	3/4	3/4	3/4	3/4	3/4	4/4	4/4	4/4	2/8	2/8	4/4	4/4	4/4	4/4	4/4	2/8	2/8	
□72	<u>4/1</u>	4/1	4/1	<u>4/2</u>	4/2	4/2	3/4	3/4	3/4	3/4	4/4	4/4	4/4	4/4	2/8	4/4	4/4	4/4	4/4	4/4	4/4	4/4	2/8	
□84	<u>4/1</u>	4/1	4/1	<u>4/2</u>	4/3	4/3	3/4	3/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	
□96	<u>4/1</u>	4/1	4/1	<u>4/2</u>	4/3	4/3	3/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	
□108	<u>4/1</u>	4/1	4/1	<u>4/2</u>	4/3	4/3	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	
□120	<u>4/1</u>	4/1	4/1	<u>4/2</u>	4/3	4/3	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	

IMPORTANT NOTES REGARDING SENSOR DENSITY

1. Items in **RED** do not meet guide spec sensor density due to manufacturing limitations.
2. Items in **GREEN** meet sensor density requirements but do not match guide spec aspect ratio requirements for the number of probes.
3. **UNDERLINED** items cannot be manufactured as internal mount due to manufacturing limitations.

○ RECTANGULAR PROBE POSITIONING IN DUCT

# of Probes	a	b
□ 1	1/2 X	NA
□ 2	1/4 X	1/2 X
□ 3	1/6 X	1/3 X
□ 4	1/8 X	1/4 X

b = distance from probe 1 to 2, 2 to 3 and 3 to 4

○ ROUND PROBE POSITIONING IN DUCT

# of Probes	a
□ 1	NA
□ 2	90°
□ 3	60°
□ 4	45°

a = angle from probe 1 to 2, 2 to 3 and 3 to 4  
Note: # probes=2 shown for illustration

**○ PROBE MOUNTING STYLE**

INTERNAL - 304 stainless steel brackets

INSERTION - 304 stainless steel brackets

Probes < 18 in. are ¼ in. undersized and do not have a terminal stud

STAND-OFF - 304 stainless steel brackets

Overall tube length is 2 in. > ordered probe length

**○ TRANSMITTER**

<input type="checkbox"/> GTC116	Two isolated analog output signals (field selectable/scalable 0-5/0-10 VDC or 4-20mA) plus one isolated RS-485 network connection (field selectable BACnet MS/TP or Modbus RTU)
<input type="checkbox"/> GTM116	Two isolated analog output signals (field selectable/scalable 0-5/0-10 VDC or 4-20mA) plus one isolated Ethernet network connection (simultaneously supported BACnet Ethernet, BACnet IP, Modbus TCP or TCP/IP)
<input type="checkbox"/> GTL116	One isolated Lonworks Free Topology network connection
<input type="checkbox"/> GTD116	One USB connection for thumb drive data-logging of sensor airflow and temperature over specified time intervals
<input type="checkbox"/> EB-Link (/EL opt.)	Interface for handheld EB-Link Reader (provided separately)

**○ 24 VAC TRANSFORMER SELECTION**

TOTAL SENSORS							
<input type="checkbox"/> 2	<input type="checkbox"/> 4	<input type="checkbox"/> 6	<input type="checkbox"/> 8	<input type="checkbox"/> 10	<input type="checkbox"/> 12	<input type="checkbox"/> 14	<input type="checkbox"/> 16
13 VA	14 VA	15 VA	16 VA	17 VA	18 VA	19 VA	20 VA

**○ PROBE TUBE MATERIAL**

<input type="checkbox"/> Stand-standard	Gold anodized 6063 aluminum (1.1" dia.)
<input type="checkbox"/> /SS option	316 stainless steel (1.125" dia.)

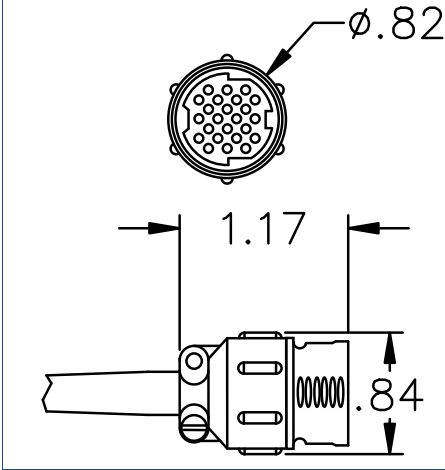
**CABLE TYPE**

<input type="checkbox"/> FEP Plenum Rated (std.)
<input type="checkbox"/> Other _____

**○ CABLE LENGTH**

<input type="checkbox"/> 10 ft. (std.)	<input type="checkbox"/> 30 ft.
<input type="checkbox"/> 15 ft.	<input type="checkbox"/> 40 ft.
<input type="checkbox"/> 20 ft.	<input type="checkbox"/> 50 ft. (max.)
<input type="checkbox"/> 25 ft.	<input type="checkbox"/> Custom ____ ft.

**✓ CONNECTOR PLUG DIMENSIONS**



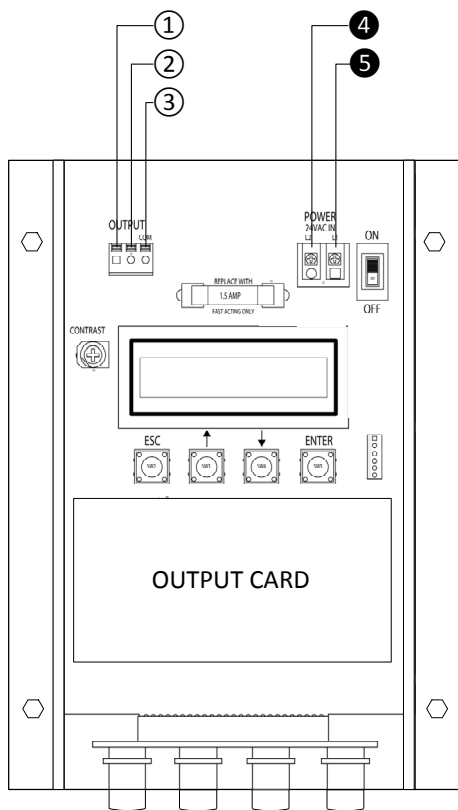
**○ TRANSMITTER CONNECTOR PLATE**

# OF PROBES	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
MAX. SENS/PROBE	8	4		
TYPE	A	B		
RECEPTACLES	2	4		

**✓ CONNECTORS & INTERCONNECTS**

- ✓ Gold plated plug/receptacle pins
- ✓ Gold plated PCB edge card fingers
- ✓ Gold plated PCB interconnects
- ✓ ENIG plated printed circuit boards

○ MAIN CIRCUIT BOARD CONNECTIONS



**ANALOG OUTPUT CONNECTIONS**

Models	<input type="checkbox"/> GTC116-P	
	<input type="checkbox"/> GTM116-P	
	+	Common
Airflow	①	③
Temperature or Alarm	②	③

**NETWORK CONNECTIONS**

Models	<input type="checkbox"/> GTL116-P	
	Net +	Net -
Lon Free Top.	①	②

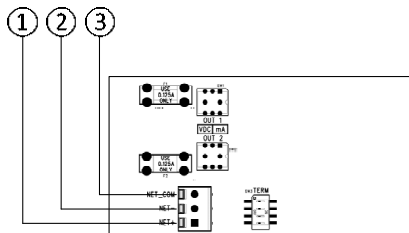
**24 VAC POWER CONNECTIONS**

Models	✓ ALL	
	L2 (gnd.)	L1 (hot)
24 VAC	④	⑤

○ OUTPUT CARD CONNECTIONS

**NETWORK CONNECTIONS**

Models	<input type="checkbox"/> GTC116-P		
	Net +	Net -	Net Com
RS-485	①	②	③



**NETWORK CONNECTIONS**

Models	<input type="checkbox"/> GTM116-P	
Ethernet	① RJ-45 (10/100)	

