

System Accuracy +/-5% of reading (installed accuracy expected when installation meets guidelines)

REV. DATE:

Input Power 24VAC +/- 20% 50-60Hz, 2.4 VA with no options, 4.8 VA with display & BACnet options 24VDC +/-10%, 1 W with no options, 3 W with display & BACnet options **Inputs** 4 Sensor Input Channels with up to 4 Sensors per Input (16 Sensors Max) Output 0-20mA, 4-20mA, 0-10v, 2-10v, 0-5v or 1-5v (software configurable) 12-bit Resolution, Capable of driving 1K ohm load **USB Power Switch** Selects alternate power source for configuration when main power is not available Status Indicators LED Status Indicators for; Power, Output, Configuration Port, Power Source Switch, Sensor Input Channel 3 and 4, Display and BACnet Communications I/O Terminal Block 3 position vertical pluggable screw terminal block, screw access on top, 12-30 AWG Standard Outdoor rated shielded cables with watertight plug on sensor end NEMA 4X Transmitter: Outdoor rated shielded cables with watertight plug on both ends Data Rates 9600, 19200, 38400, 76800 and 115200 Network bias and EOL Termination not provided within the Transmitter Liquid Crystal Display, 2 lines x 8 characters with white LED backlight Rivet Nut: Neoprene Rubber with #10-32 threaded Brass Insert Sensor Electronics: NEMA 4X (IP66) Polycarbonate Plastic, UL94-V0 Optional Transmitter: NEMA 4X (IPX6) Polycarbonate Plastic, UL94-V0 Emissions EN 55011:2009+A1:2010, FCC Part 15:2017, ICES-003 Issue 6, EN61326-1:2013, EN61000-4-2:2009, EN61000-4-3:2006+A1:2008+A2:2010 EN61000-4-4:2012, EN61000-4-5:2006, EN61000-4-6:2009, EN61000-4-8:2010 DWG. NO: VTFA SUBMITTAL **REVISION:** Н ECN 2663 9-24-20 SHEET

OF 4

1

SENSOR INSTALLATION

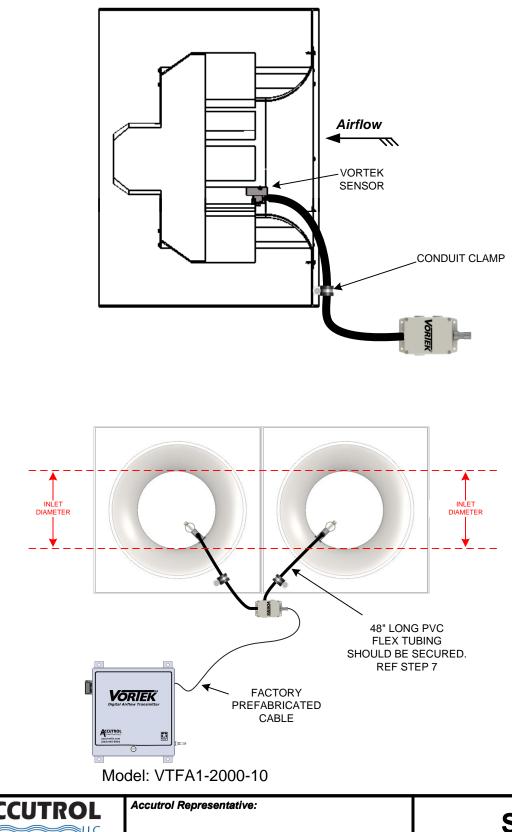
CROSS SECTION VIEW

21 Commerce Dr

Danbury, CT 06810

Tel: 203-445-9991

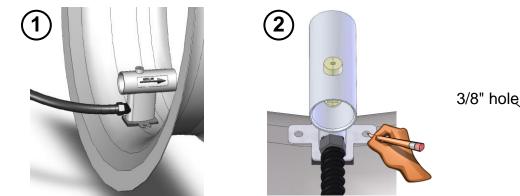
accutrolllc.com



CAUTION: Only use the mounting hardware provided with the sensors and follow the instructions below, otherwise damage to the fan may result. If hardware is missing contact the factory.

MOUNTING HARDWARE PROVIDED WITH EACH SENSOR:

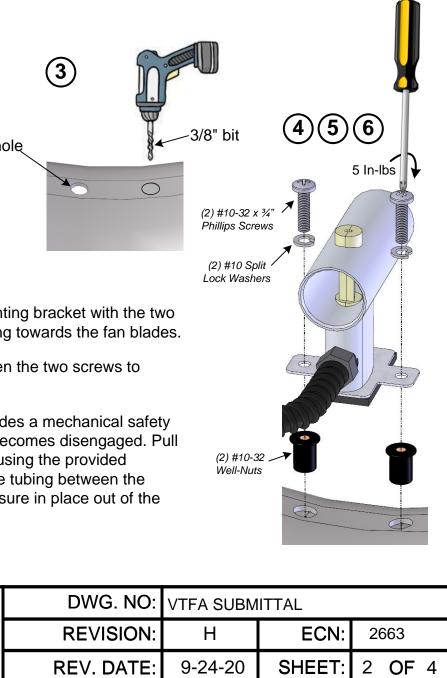
- (2) #10-32 Well-Nuts with Threaded Inserts (2) #10-32 x ³/₄" Long Phillips Screws (2) #10 Split Lock Washers (1) Conduit Clamp
- (1) Screw, #10x1/2",SS,TEK
- **1.** Position the sensor into the throat of the fan inlet bell (smallest diameter) with airflow direction indicator facing towards the fan blades. Verify the fan blades will not come in close contact with the sensor and there are no obstructions in front of the sensor.
- 2. Using the sensor mounting bracket as a template, mark the inlet bell through the two mounting holes then remove the sensor.
- 3. Drill a hole at each location using a 3/8" diameter drill bit.



- 4. Insert the 2 well-nuts into the 3/8" diameter holes.
- 5. Place the sensor into the fan inlet bell and align the two holes in mounting bracket with the two well-nuts. Verify the airflow direction indicator on the sensor is pointing towards the fan blades.
- 6. Secure the sensor in place using mounting hardware supplied. Tighten the two screws to 5 inch-pounds.
- 7. In addition to serving as a signal conduit, the flexible tubing also provides a mechanical safety connection to prevent the sensor from getting pulled into the fan if it becomes disengaged. Pull the flexible conduit away from the fan inlet and secure it to a surface using the provided Conduit Clamp so it is not in the air stream and there is no slack in the tubing between the sensor and mounting hardware. Secure the Sensor Electronics Enclosure in place out of the airstream.
- 8. For multiple fan applications, repeat above steps for other fans.

SUBMITTAL DRAWING VorTek^{G3} Fan Array

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Drill with a 3/8" Drill Bit 5/16" Hex Driver #2 Phillips Screwdriver with Torque Indicator

WARNING: Use safety glasses and cut-resistant gloves when installing sensors. Verify the circuit providing power to the fan is turned off and there is no power at the fan motor.

TOOLS REQUIRED:

TRANSMITTER INSTALLATION

- coarse thread wood screws, for drywall surface, use drywall anchors with the appropriate screws.
- 3. Connect each sensor to the corresponding sensor input channel on the transmitter using the cables provided (Reference Figure 1)

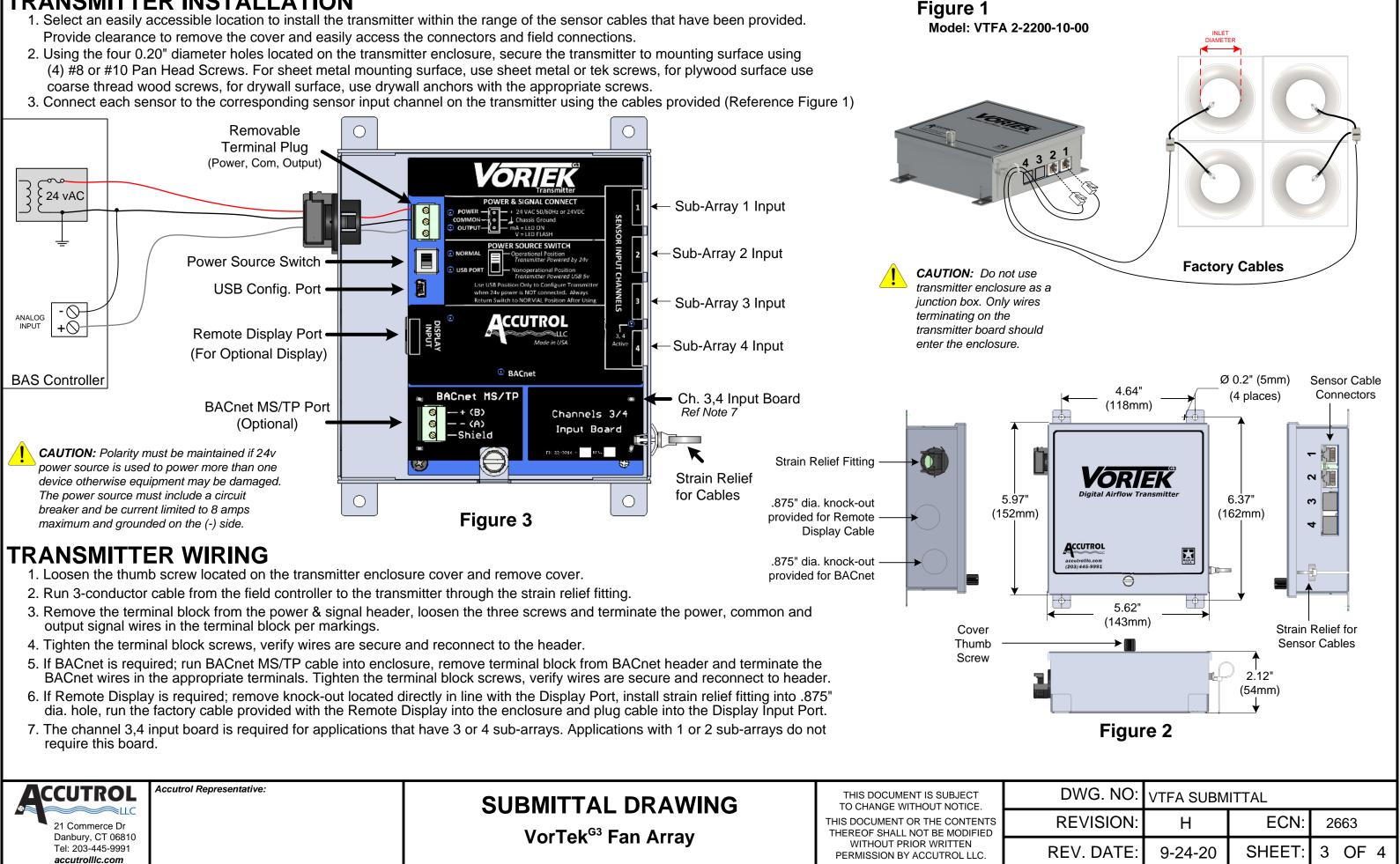




Figure 1

OPTIONS

