UA Local 4 Questions

1. Does the small control panel 12"x12"x5" for the filter unit just get supplied with 110 power and that is it?? or is there control wiring as well from that control panel to the VFD??

**Avani Answer:**  110 Volt needs to be run to pulse valve box. See wiring diagram for details.

1. Just confirm that a 1" direct feed from the air compressor to the top of the air header on the filter is fine with a dirt leg coming off the bottom of the air header on the filter. Yes or no??

**Avani Answer:**  We recommend clean air to the air compressor. Air needs to be regulated between 90-100 psi.

1. Is there a special probe that is supposed to be with this pressure sensor which would protrude into the duct?? All I have is the sensor with a positive and negative port on it. Is it just tubing protruding into the duct and hang there??Is there a standardized probe?? etc.

**Avani Answer:**  Two probes have been shipped to site. Place probe in negative port and in duct. We are awaiting confirmation to leave high pressure port to ambient air.

1. Is one pressure sensor ok to do what we need?? or do we need two installed at the farthest points of the system based on our design??

**Avani Answer**: One sensor is sufficient for fan speed control. The goal is to maintain set point pressure in the ductwork changing speed of the fan as welding stations are opened.

1. What is the best location of the sensor or sensors for best operation??

**Avani Answer:**  Place probe in negative port and in duct before collector 2\*D. Diameter @ 34”x34” is equivalent to 38” diameter… place probe 76” from collector.

1. Please explain where the control wiring and or air tubing terminates within the VFD from the pressure sensor. Which connection points within the VFD?? maybe a drawing would be best??

**Avani Answer:**  Sent drawing for details. Pressure sensor is on page 2 reference 2/65 part number MS-321-LCD.

1. Is there a connection point within the VFD to tell the Bypass damper as designed in our system to open or close as the VFD tells the 50H motor to ramp up and down???

**Avani Answer:**  Awaiting response from VFD manufacturer.

1. IF NOT...Where can we draw a signal from within the VFD when the 50h motor is ramped up or down that would allow us to externally tell this damper when to open and close???

**Brian’s Answer**: Awaiting response from VFD manufacturer.