

QUICK START GUIDE

DCAS - Data Center Aisle Sentry



INSTALLATION PROCEDURE

STEP 1: UNPACKING

PACKING LIST

- DCAS Transmitter
- Quick Start Guide
- Factory Setup Sheet

Visit the DCAS product page for more information.



INSPECTION & HANDLING

The DCAS transmitter should be carefully inspected for damage prior to installation. Report damage to your freight department or contact the delivery carrier.

WARRANTY

Air Monitor Corporation (Hereinafter referred to as "Seller") warrants that at the time of shipment, products sold pursuant to this contract will be free from defects in materials and workmanship, and will conform to the specifications furnished or approved in writing by the Seller. Please refer to Conditions of Sale on the Air Monitor website for more information.

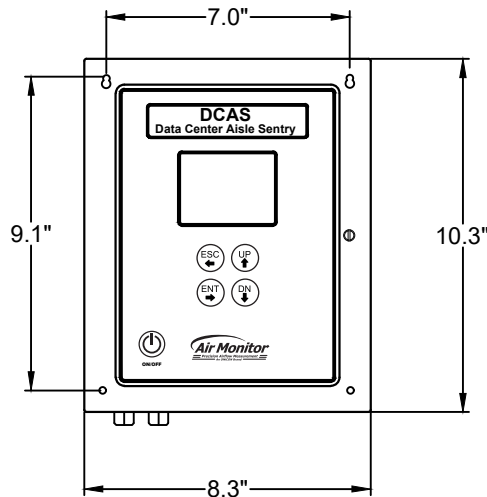
STEP 2: MECHANICAL INSTALLATION

Find an easily accessible location where electrical connections can be made and display readings can be taken from the floor level. The mounting surface must be structurally sound and capable of withstanding a minimum weight of 10lbs (4.5kg). Use the following screws for mounting.

For NEMA 1 Enclosure:

- (4) Machine screws - #8-32 x 1.5"
- (4) Wood screws - #8 x 1.5"
- (4) Concrete screws - 0.1875" x 1.5"

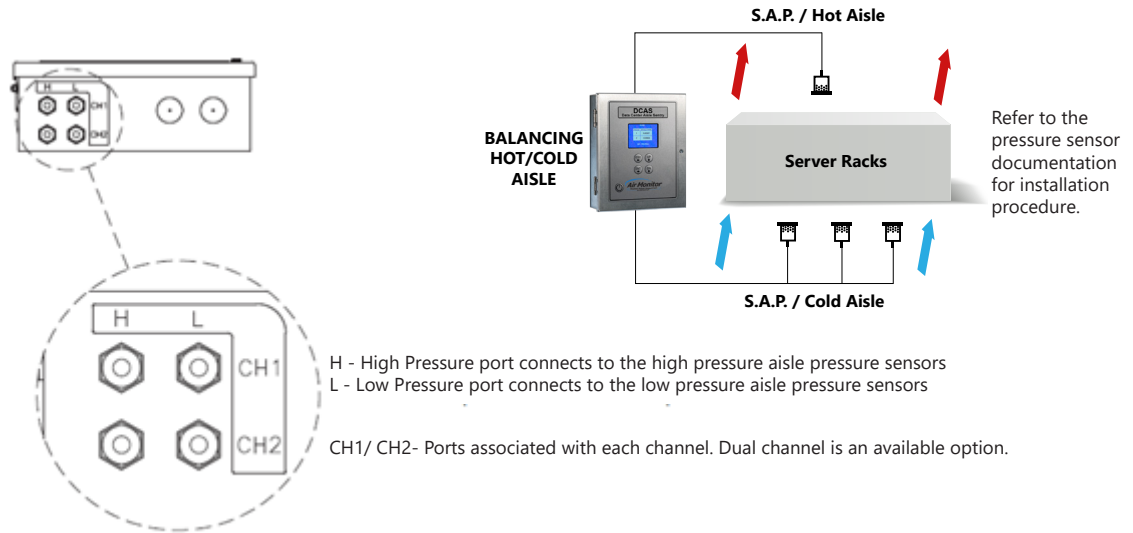
NEMA 1 ENCLOSURE



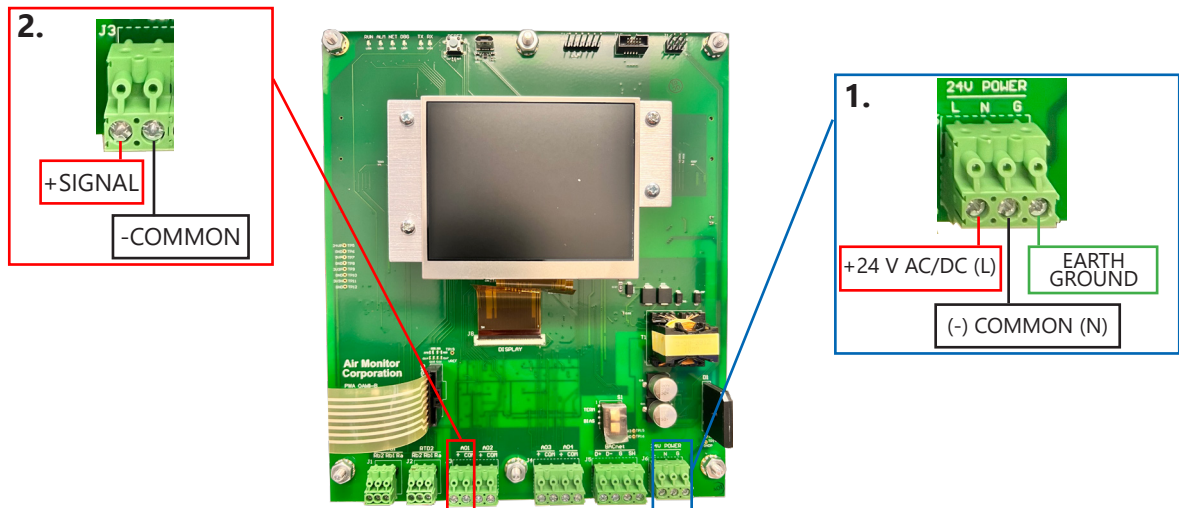
Install the pressure or flow sensor per manufacturer recommendations. Use the table below to determine the appropriate sensor tubing diameter based on the distance from the enclosure to the airflow sensors. Contact Air Monitor for assistance if longer tubing lengths are required.

Nominal/Min Tubing Internal Diameter (in)	Tube Length Total (ft)	Sensor Max Distance from Transmitter (ft)
1/8 (0.125)	30	15
3/16 (0.1875)	200	100
1/4 (0.25)	500	250
3/8 (0.375)	1000	500

Air Monitor recommends that signal tubing between the transmitter enclosure and all sensors be stainless steel or copper of the appropriate size. Use tees or manifolds to combine multiple sensors into single high and low pressure lines running to the transmitter's channel fittings for each channel. UV resistant, flexible, plastic tubing specifically designed for outdoor use, such as Tygon R-3400 or equivalent, may also be used. Use brass inserts with the plastic tubing as required to ensure a leak free connection. The connection types can be either compression fittings which are recommend with metal tubing or barb fittings which are recommended for plastic tubing.



STEP 3: ELECTRICAL INSTALLATION



1. POWER
 - I. Verify that correct AC/DC voltage is available at the power supply input terminals per its wiring diagram.
 - II. Input voltages should be supplied via one of the two methods below:
 - 24 VAC, 15VA @ 24 VAC
 - 24 VDC, 10W @ 24 VDC
 - III. After the transmitter is connected via power and analog, press the ON/OFF button on the front panel to power on the device.
2. ANALOG OUTPUT
 - I. For each analog output wire the two wires, the signal and the common for the device to provide 4-20mA or 0-10V signal for each output.
 - II. Analog loop should not have power supplied to or it will damage the analog output.



Contact Air Monitor technical support for further assistance is needed.