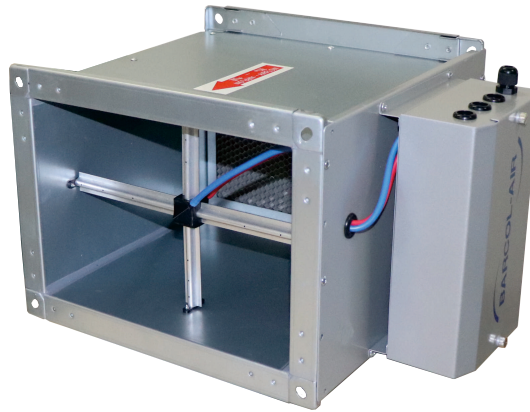


AER Models with integral Air Flow Measurement Sensor and Transducer providing 0-10v output signal proportional to the measured Air Flow or actual Airflow by Modbus RTU



## Description

Barcol-Air Airflow Measurement Stations are supplied complete with Barcol-Air factory assembled and calibrated high accuracy Flo-cross air flow sensors to ensure accurate air flow measurement. They are also complete with integral pressure transducer and controller to provide a 0 to 10v output signal directly proportional to the measured airflow or actual airflow by Modbus RTU . Each Air Flow Station is factory assembled, tested, and calibrated and shipped ready for operation.

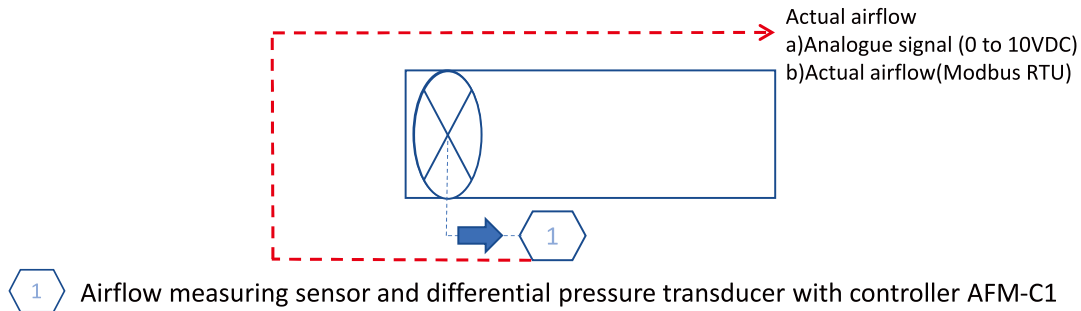
## Control Features

### Includes:

- Barcol-Air high accuracy Flo-Cross sensor for airflow measurement with minimum 2x12 sensing points, signal amplification and signal averaging providing sensing accuracy of better than  $\pm 2.5\%$  in its operating range to insure accurate flow measurement.
- The Airflow Measurement Stations include an integral static type air measurement pressure transducer with controller.
- Measured Airflow signals
  - a) Analogue signal (0 to 10VDC) proportional to the measured airflow.
  - b) Actual airflow (Modbus RTU).
- Communication with Building Management System – Modbus RTU and with BACnet IP or BACnet MS/TP via accessory Modbus-BACnet transfer module.
- Nominal power requirements: 24VDC, 50/60Hz, 3VA.

## Control Schematic

Air Flow Measurement Station with integral Air Flow measuring sensor and differential pressure transducer with controller AFM-C1



## VAV Terminal Features

- Galvanised steel bodies with optional polyester powder paint finish or stainless-steel body for enhanced corrosion resistance.
- Low casing air leakage:
  - AER series casing leakage class C according to Standard EN1751

## Options & Accessories

- Power transformer 230VAC to 24VDC.
- Accessory Modbus-BACnet transfer module.
- Honeycomb Air Straightener
  - Aluminium Honeycomb grade 3003.
  - Depth - 25mm or 50mm.
  - Thickness - 0.06mm.
  - Hexagonal cells - side length 4mm.



AFM-C1 with optional Honeycomb Air Straightener