



KELE OUTDOOR AIRFLOW MEASURING SYSTEM KOAMS SERIES

DESCRIPTION

The **Kele KOAMS Series outdoor airflow measuring system** consists of multiple airflow elements, factory mounted and pre-piped in a casing designed for flanged connection to ductwork, control dampers, louvers, etc. An optional inlet bell is available for plenum applications.

The integral signal processor utilizes state-of-the-art digital microprocessor technology with unequaled 24-bit A/D and 12-bit D/A signal conversion resolution and has twelve-point linearization capability.

The **KOAMS** is capable of measuring down to 100 fpm and providing full scale operating ranges as low as 693 fpm. The signal processor accepts a temperature input signal for air density compensation for standard (scfm) or actual (acfm) airflow calculations.



KOAMS with Remote Transmitter

FEATURES

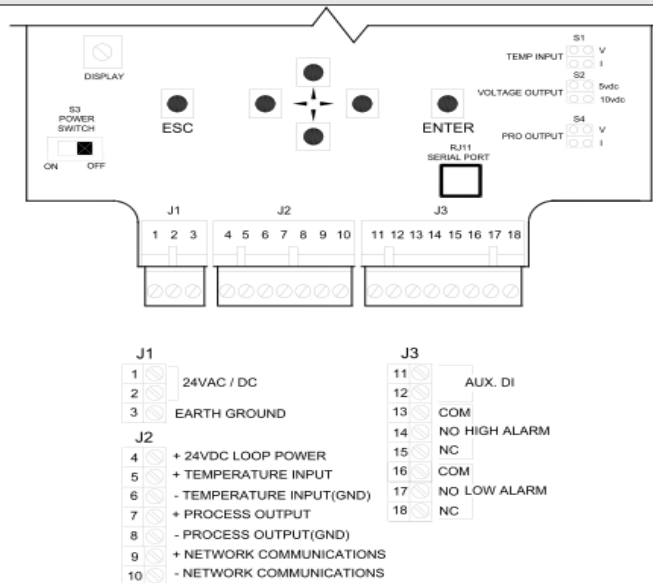
- **Multiple total and static pressure sensing ports to comply with ASHRAE Standard 111 for duct traversing**
- **Not affected by condensation or moisture**
- **Factory mounted and pre-piped in a flanged duct section (casing)**
- **Full scale spans as low as 693 fpm (3.52 m/s) velocity**
- **Excellent AD/DA resolution: 24-bit A/D and 12 bit D/A**
- **Large back lit LCD for configuration and local indication of the measured process**
- **Auto zeroing function**
- **NEMA 4 rated enclosure**
- **Modbus communication**
- **Certified LonWorks® or BACnet MS/TP® communication option**

SPECIFICATIONS

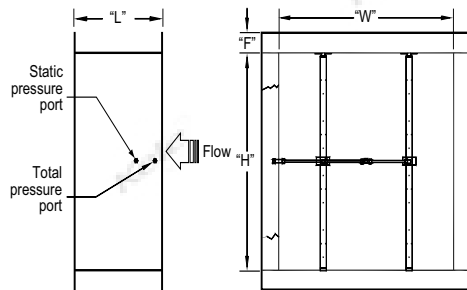
Supply Voltage	20 to 28 VAC/VDC	Communication	LonWorks®, BACnet MS/TP®, Modbus
Supply VA	Standard processor: 4.6 VA at 24 VAC, 2.7 VA at 24 VDC Full-option processor: 6 VA at 24 VAC/VDC	Operating Temperature	Processor: 32° to 122°F (0° to 50°C) Station: up to 350°F (177°C) continuous operation
Accuracy	Within ±0.5% of actual flow through the range of 200 to 1,200 fpm, and ±5% at 100 fpm velocity, when installed in accordance with published recommendations	Operating Humidity	Processor: 0 to 95% RH, non-condensing Station: 0 to 100% RH
Analog Output	Jumper selectable 0-5 VDC, 0-10 VDC (1KΩ minimum), or 4-20 mA (500Ω maximum)	Materials Of Construction	Elements: 6063-T5 anodized aluminum Casing: 16 ga. G90 galvanized steel (other materials available special order)
Velocity Range	100 to 2,800 fpm	Enclosure Rating	NEMA 4X with proper connectors
Digital Outputs	Optional high/low alarm, two single (one Form C) dry contact	Dimensions	Processor housing 6.7"H x 4.7"W x 2.7"D (16.9 x 11.9 x 6.9 cm)
Relay Rating	5A at 30 VAC/VDC, 10A at 120 VAC resistive load	Warranty	1 year



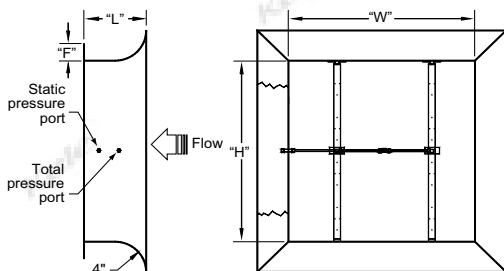
SIGNAL PROCESSOR FIELD CONNECTIONS



DIMENSIONS



Flanged Stations for Ducted Applications



Stations with Optional Inlet Bell for Plenum Applications

Note: Dimension "F" = 1-1/2" (stations 8"-72") or 2" (stations > 72")

ORDERING INFORMATION

MODEL	DESCRIPTION
KOAMS	Outdoor airflow measuring system
	CASING WIDTH (inches, minimum increments of 1/4")
	CASING HEIGHT (inches, minimum increments of 1/4")
	CASING LENGTH (5", 8", 12"; custom lengths available)
	PROBE DIRECTION
	2 Casing height
	SIGNAL PROCESSOR MOUNTING LOCATION
	3 Remote
	OUTPUT
	1 4-20 mA
	2 0-5 VDC
	3 0-10 VDC
	2 TEMPERATURE TRANSMITTER
	OPTIONS
	1 Inlet bell (not available w/5" casing)
	3 High/Lo alarm
	4 LonWorks Communication
	5 BACnet MS/TP Communication
	6 Modbus Communication
	7 Optional 0.1% F.S. Accuracy

Example: KOAMS-20-30-12-2-3-1-2-1
20" x 30" station with 12" casing length, 4-20 mA output, and inlet bell

KOAMS-TT

RELATED PRODUCTS

Replacement outside air temperature transmitter
(-30° to 130°F)