



THERMAL DISPERSION ELECTRONIC DUCT AVERAGING AIRFLOW TRANSMITTER KAMP5K SERIES



**KAMP5K shown w/remote only
Probe only & Combination**

DESCRIPTION

The Kele model **KAMP5K** is a highly accurate thermal dispersion airflow and temperature measuring probe. Multiple velocity and temperature points on one or more probes installed in the duct or plenum are averaged to arrive at air measurements.

The **KAMP5K** is capable of measuring a velocity range from 0 to 5,000 FPM and displaying the flow and temperature at each sensing point. Within each low-pressure drop airfoil-shaped probe are up to 8 moisture-resistant flex sensors. Both velocity and temperature are measured by each flex sensor thermistor pair. The flex sensor pair is protected from the elements with a thin conformal coating. Trouble-free performance is assured by laser-etched, micro welded and hermetically sealed flex sensor connection points. The highest accuracy over the entire range of air flows results from probe sensing elements that are factory tested and calibrated at 20 points.

FEATURES

- **Self-diagnostics utilizing artificial intelligence**
- **BACNET and analog output standard**
- **Lowest power consumption thermal dispersion device available**
- **Tool-free one-touch setup through surface membrane label**
- **Stainless Steel mounting hardware**

Typical Systems Include:

- Microprocessor Primary (Combined w/probe or remote)
- Multi-Sensor Averaging Duct Probe (may need >1)
- Each probe has multiple sensors per probe

- **Standard cabling, no proprietary cables**
- **Third-party verified FCC, UL, BTL, AMCA, NIST and ISO 9001**
- **Airfoil shaped acid-etch clear anodized sensing probes featuring lower pressure drop and less noise**
- **Highest density thermal dispersion sensing array up to 128 sensing points**

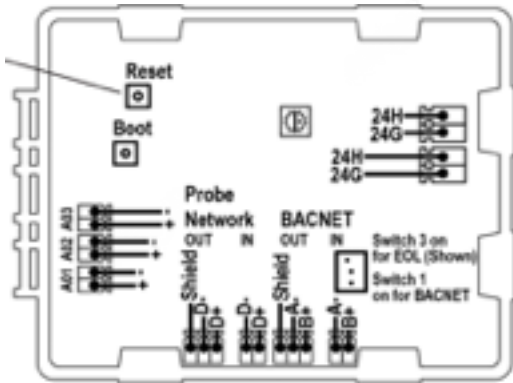
SPECIFICATIONS			
Power	24VAC, 15VA (16 probes & 128 sensors)	Ambient RH Enclosures	0-99% Non-condensing NEMA-1, ABS plastic, UL94-5VA NEMA-4 (-N4 Option)
Sensor	Thermal Dispersion (TD), dual thermistors	Probe	Aluminum & ABS plastic, UL 94 flame rated mounting 2.25" (57mm) TD probe hole
Accuracy	128 sensors max, 16 probes max ±3% of total air flow	1-CTLR	Tab w/ 4 screw holes
TD Sensor	±2% of reading, ±0.25% repeatability	1-TD Probe	Tab w/4 screw holes & 4 opposite duct
Temperature	±0.1°F (0.06°C)	Opt. Remote Termination	Tab w/4 screw holes Screw terminals in 5.8" x 6.5" enclosure
Velocity Range	0 to 5,000 FPS (0 to 25 mps) max	Primary	4-PWR, 4-MSTP, 6-Analog, 4-ancillary probes
Output	2-Sourcing, 4-20mA @ 500Ω impedance	TD Probe	4-PWR, 4-ancillary probes
FPS or CFM	Set by main processor FPS (MPS) = 0-5,000, or CFM (LPS) = FPS (MPS) x W x H	RMT. Display	4-PWR, 4-ancillary (Anc.) probes
Temperature Range	Set by main processor -20 to 120°F (-29 to 49°C)	Wire Dimensions	Two TSP, 18 AWG, low capacitance 5.8"W x 6.5"H x 3.8"D, (147 x 165 x 96 mm)
Communication	Proprietary RS-485 between probes	Probe Length	8" to 120," actual duct width + 0.5"
BAS Protocol	BACnet MSTP, RS-485 to BAS	Probe Diameter	2.13" W Airfoil x 0.84"H, 2.25" MNTG hole
Controls		Weight	12 lbs (5.4 kg) w/CTLR and 2 TD probes
Primary	5 buttons for menu set-up	Approvals	FCC, UL, BTL, AMCA, RoHS, USGBC
Remote	7 buttons for menu set-up, 500ft CBL max	Warranty	5 years
Indication			
Primary	2-line, 16-character alphanumeric LCD Green backlit, w/IP or SI units		
Remote	Wired, LED Green, 24VAC, 1VA Wireless, LED, 24VAC, 1VA, 200' open air		
Ambient Temperature			
Sensor	-20 to 120°F (-29 to 49°C)		
Primary	-20 to 120°F (-29 to 49°C)		

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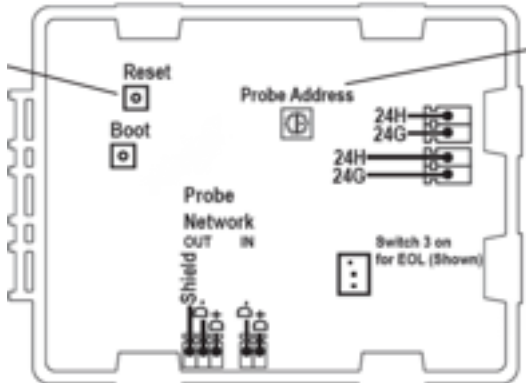
WIRING

Limits:

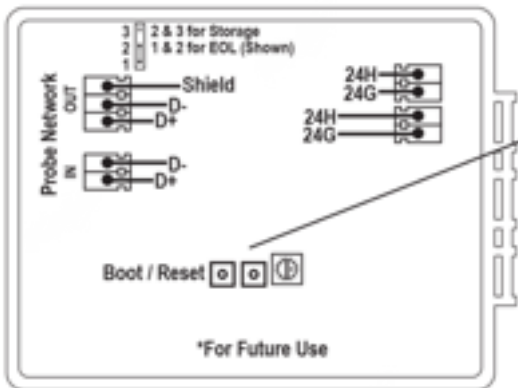
1 to 4 probes in rectangle ducts 120"W x 120"H
 Between 2 and 8 sensors per probe per order
 128 sensors max, 16 probes max
 Twin 4-20mA sourcing outputs standard
 Power = 24VAC, 15VA for any size system
 Proprietary RS-485 addresses -16 max (0-F)
 Proprietary RS-485 cable max 500 feet
 Wireless remote display, open air 200' max
 Round and oval ducts possible w/bracket



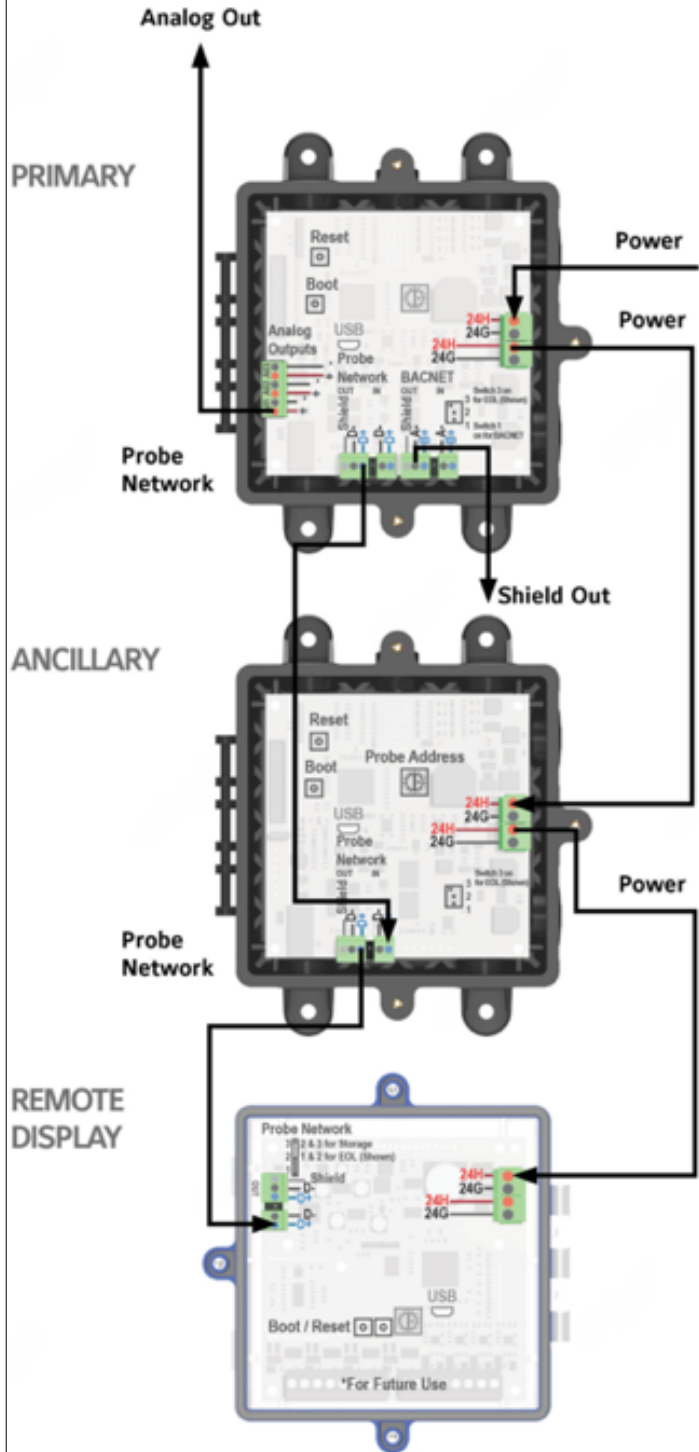
Primary Main Controller
 Reset = Resets Power



Ancillary TD Sensor Probe



Wired Remote Display





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ORDERING INFORMATION

KAMP5K	Main Processor w/Thermal Dispersion probes sized for the duct W x H		
	-ww.w =	ww.w = Actual Duct Probe Width in inches (any value between 8.0" to 120.0" in 0.1" increments)	
	- hh.h	hh.h = Duct Probe Height in Inches (any value between 8.0" to 120.0" in 0.1" increments)	
	Opt.	Options for the TD Sensor Probe & Enclosure, (Multiple opt. list alphabetically)	
	-DSB	Damper Stand-Off Bracket for TD Probe	
	-FSDMB	Far Side Duct Mounting Bracket for TD sensor probe mounting inside the duct	
	- N4	NEMA 4 KAMP5K Enclosure	
	- RDB	Round Duct Bracket for the KAMP5K Enclosure	
Example:			
KAMP5K	-19.5	-19.5	-DSB-N4 Main Processor w/Thermal Dispersion sensor w/Two 19.5" probes, w/DMPR BKT & NEMA-4 Encl.

RELATED PRODUCTS

DCPA-1.2	Power supply, 120 VAC IN to 24 VAC/24 VDC OUT
DCP-1.5-W	Power supply, 24 VAC IN to 24 VDC OUT

ACCESSORIES

DMPR-RA002	Remote 5-button controller w/display
RMD	Remote 7-button wired display
RMD-W	Remote 7-button wireless display
DMPR-KA002	SS damper stand-off bracket for TD sensor probe
FSDMB	Far side duct mounting bracket for TD sensor probe mounting inside the duct
RDB	Round duct bracket for the KAMP5K or TDP probe enclosure
N4-PLK	4 rubber plug kit to make NEMA-1 enclosure into a NEMA-4 enclosure
691-K0A	120/24 VAC, 40VA transformer hub mount (9 sensor system)
691-K1A	120/24 VAC, 100VA transformer hub mount (16 sensor system)