



# VORIEK<sup>G3</sup>

## Advantages



**Tek-Air** Airflow Products



## Advantages Over Thermal Dispersion

	VorTek	Thermal Dispersion
<b>Measurement Theory</b>		
Primary measurement	✓	✗
Sensors are stable over time	✓	✗
Every sensor has the same output	✓	✗
Every sensor has a linear output	✓	✗
True digital measurement	✓	✗
<b>Sensor/Probes</b>		
Sensor is immune to changes in humidity	✓	✗
NO periodic calibration requirement	✓	✗
Sensor does NOT require periodic cleaning	✓	✗
Digital technology instead of analog	✓	✗
Non proprietary RJ45 cable	✓	✗
Low cost sensor/probe replacement	✓	✗
Low cost cable replacement	✓	✗
Simple probe sensor construction	✓	✗
Probes are interchangeable	✓	✗
<b>Calibration</b>		
NIST traceable standards on entire line	✓	✗
<b>Electronics</b>		
Microprocessor technology	✓	✓
Field upgradable firmware	✓	✓
Does NOT require high performance A/D converter	✓	✗
Low power requirements	✓	✗
Simple field airflow calibration	✓	✗
NO complex curve matching is required	✓	✗
Small electronics footprint	✓	✗
<b>Modular Design</b>		
One Electronics Platform for any sensor density	✓	✗
Field add for BACnet	✓	✗
Field add for sensors	✓	✗
Field add for remote display	✓	✗
<b>User Interface</b>		
Free intuitive graphical user interface	✓	✗
Does NOT use antiquated decision tree for field setup	✓	✗
Display is optional	✓	✗
Remote display is optional	✓	✗
Display is NOT required for setup	✓	✗



## Advantages Over Velocity Pressure

	VorTek	Pitot	Piezo Ring
<b>Measurement Theory</b>			
Primary measurement	✓	✓	✓
Sensors are stable over time	✓	✓	✓
Every sensor has the same output	✓	✓	✗
Every sensor has a linear output	✓	✗	✗
<b>Sensor/Probes</b>			
Independent multipoint velocity averaging	✓	✗	✗
High turndown	✓	✗	✗
Sensor is NOT affected by changes in humidity	✓	✗	✗
NO periodic calibration requirement	✓	✗	✗
Sensor does NOT require periodic cleaning	✓	✗	✗
Simple cable	✓	✗	✗
<b>Calibration</b>			
NIST traceable standards on entire line	✓	✗	✗
Sensor/Transmitter tested as a unit	✓	✗	✗
Sensor/Transmitter NIST as unit	✓	✗	✗
<b>Electronics</b>			
Microprocessor technology	✓	✗	✗
Field upgradable firmware	✓	✗	✗
Does NOT require high performance A/D converter	✓	✗	✗
Low power requirements	✓	✓	✓
Simple field airflow calibration	✓	✗	✗
Transmitter drift free	✓	✗	✗
Linear airflow output	✓	✗	✗
<b>Modular Design</b>			
One electronics platform for any sensor density	✓	✗	✗
Field add for BACnet	✓	✗	✗
Field add for sensors	✓	✗	✗
Field add for remote display	✓	✗	✗
<b>User Interface</b>			
Free intuitive graphical user interface	✓	✗	✗
Display is optional	✓	✗	✗