

VORIEK

Advantages





Advantages Over Thermal Dispersion

Primary measurement Primary measurement Primary measurement Primary are stable over time Primary measurement		VorTek	Thermal Dispersion
Sensors are stable over time V X Severy sensor has the same output V X Sensor has a linear output V X Sensor has a linear output V X Sensor loss a linear output V X Sensor loss immune to changes in humidity V X Sensor is immune to changes in humidity V X X X X X X X X X X X X	Measurement Theory		
Every sensor has the same output V X Every sensor has a linear output V X Fire digital measurement V X Sensor/Probes Sensor/Probes Sensor is immune to changes in humidity V X Operiodic calibration requirement V X Sensor does NOT require periodic cleaning V X Sonsor does NOT require periodic cleaning V X Non proprietary Ry45 cable V X Sonsor ost sensor/probe replacement V X Sonsor does not cable replacement V X Sonsor does replacement V X Calibration NIST traceable standards on entire line Selectronics Wilcroprocessor technology V V Selectronics Wilcroprocessor technology V V Sonson Port require high performance A/D converter V X Sonsop over requirements V X Sonsop over requi	Primary measurement	✓	×
Fire digital measurement V Sensor/Pobes Sensor is immune to changes in humidity V Sensor does NOT require periodic cleaning V Son NOT periodic calibration requirement Sensor does NOT require periodic cleaning V Son proprietary RJ45 cable V Son proprietary RJ45 cable V Son proprietary RJ45 cable V Son cost caslo replacement	Sensors are stable over time	✓	×
Frue digital measurement Frue digital meanure to changes in humidity Frue calibration requirement Frue digital technology instead of analog Frue digital technology frue digital technology Frue digital measurement Frue digi	Every sensor has the same output	✓	*
Sensor/Probes Sensor is immune to changes in humidity V X NO periodic calibration requirement V X Sensor does NOT require periodic cleaning V X Significal technology instead of analog V X Non proprietary Rj45 cable Low cost sensor/probe replacement V X Sensor construction V X Calibration NIST traceable standards on entire line Selectronics Wificroprocessor technology V V Selectronics Wificroprocessor technology V V Simple field airflow calibration NO complex curve matching is required V Modular Design Dne Electronics footprint V X Modular Design Dne Electronics footprint V X Selectronics field add for sensors Poles RACet V X Simple field airflow calibration Simp	Every sensor has a linear output	✓	*
Sensor is immune to changes in humidity NO periodic calibration requirement NO periodic calibration requirement NO periodic calibration requirement NO periodic calibration require periodic cleaning Non proprietary RJ45 cable Non proprietary RJ45 cable NO cost sensor/probe replacement NO complex construction NO Complex curve matching is required NO ST Traceable standards on entire line NO Complex curve matching is required NO Comple	True digital measurement	✓	×
NO periodic calibration requirement V Sensor does NOT require periodic cleaning V Non proprietary RJ45 cable Low cost sensor/probe replacement V Simple probe sensor construction V Calibration NIST traceable standards on entire line Electronics Wicroprocessor technology V V Coes NOT require high performance A/D converter Low power requirements V X X X X X X X X X X X X	Sensor/Probes		
Sensor does NOT require periodic cleaning Pigital technology instead of analog Non proprietary RJ45 cable Now cost sensor/probe replacement Now cost sensor/probe replacement Now cost sensor/probe replacement Now cost cable replacement Now complex curve matching is required Now	Sensor is immune to changes in humidity	✓	*
Digital technology instead of analog Non proprietary RJ45 cable Low cost sensor/probe replacement Low cost sensor/probe replacement Low cost cable replacement Low construction Low cost cable replacement Low construction Low cost cable replacement Low cable replacement Low cost cable replacement Low cost cable replacement Low cost cable replacement Low cable replacement Low cost cable replacement Low cost cable replacement Low cable	NO periodic calibration requirement	✓	*
Non proprietary RJ45 cable Low cost sensor/probe replacement Low cost sensor/probe replacement Low cost cable replacement Low callibration Los compower requirements Low power requirements Low pow	Sensor does NOT require periodic cleaning	✓	*
Low cost sensor/probe replacement Low cost cable replacement Low cable Low cost cable sensor construction Low cost cable sensor construction Low cost cable standards on entire line Low cable standards on	Digital technology instead of analog	✓	×
Low cost cable replacement Low cash care interchangable Low cash cash cash cash cash cash cash cash	Non proprietary RJ45 cable	✓	×
Simple probe sensor construction Probes are interchangable Calibration NIST traceable standards on entire line V SElectronics Microprocessor technology Microprocessor technolog	Low cost sensor/probe replacement	✓	×
Probes are interchangable Calibration NIST traceable standards on entire line Electronics Microprocessor technology Field upgradable firmware Obes NOT require high performance A/D converter Ow power requirements NO complex curve matching is required NO complex curve matching is req	Low cost cable replacement	✓	×
Calibration NIST traceable standards on entire line	Simple probe sensor construction	✓	×
Ricctronics Microprocessor technology Micro	Probes are interchangable	V	×
Electronics Microprocessor technology Micropro	Calibration		
Microprocessor technology Field upgradable firmware Does NOT require high performance A/D converter Low power requirements NO complex curve matching is required Modular Design Done Electronics Platform for any sensor density Field add for BACnet V Sield add for sensors Field add for remote display V Ser Interface Free intuitive graphical user interface Does NOT use antiquated decision tree for field setup No service display is optional V Remote display is optional	NIST traceable standards on entire line	V	×
Field upgradable firmware Pooes NOT require high performance A/D converter Low power requirements Low power requirements Poonuments P	Electronics		
Does NOT require high performance A/D converter Low power requirements V Simple field airflow calibration V NO complex curve matching is required V Modular Design One Electronics Platform for any sensor density Field add for BACnet V X Similated add for sensors V Sield add for remote display V Ser Interface Free intuitive graphical user interface Does NOT use antiquated decision tree for field setup V Remote display is optional X X X X X X X X X X X X X	Microprocessor technology	✓	✓
Low power requirements Simple field airflow calibration V NO complex curve matching is required V Small electronics footprint W Modular Design One Electronics Platform for any sensor density Field add for BACnet V Similar field add for remote display V Similar field add for sensors V Similar field add for remote display V Ser Interface Fire intuitive graphical user interface Oces NOT use antiquated decision tree for field setup V Remote display is optional V Sermote display is optional	Field upgradable firmware	✓	✓
Simple field airflow calibration NO complex curve matching is required NO complex curve matchi	Does NOT require high performance A/D converter	✓	*
NO complex curve matching is required Modular Design One Electronics Platform for any sensor density Field add for BACnet Field add for sensors Field add for remote display User Interface Free intuitive graphical user interface Coos NOT use antiquated decision tree for field setup Remote display is optional Remote display is optional	Low power requirements	✓	*
Modular Design One Electronics Platform for any sensor density Field add for BACnet Field add for sensors Field add for remote display User Interface Free intuitive graphical user interface Free intuitive graphical user interface Does NOT use antiquated decision tree for field setup Remote display is optional Remote display is optional	Simple field airflow calibration	✓	*
Modular Design One Electronics Platform for any sensor density Field add for BACnet Field add for sensors Field add for remote display User Interface Free intuitive graphical user interface Ooes NOT use antiquated decision tree for field setup Display is optional Remote display is optional	NO complex curve matching is required	✓	*
One Electronics Platform for any sensor density Field add for BACnet Field add for sensors Field add for remote display	Small electronics footprint	✓	×
Field add for BACnet Field add for sensors Field add for remote display	Modular Design		
Field add for sensors Field add for remote display V Ser Interface Free intuitive graphical user interface Coes NOT use antiquated decision tree for field setup Display is optional Remote display is optional V Service interface V Service interface V Service interface V Service interface V Service intuitive graphical user interface V Service interface Service interface interface Service interface Service interface interface Service interface interf	One Electronics Platform for any sensor density	✓	*
User Interface Free intuitive graphical user interface Coes NOT use antiquated decision tree for field setup Display is optional Remote display is optional ✓ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★	Field add for BACnet	✓	×
User Interface Free intuitive graphical user interface Coes NOT use antiquated decision tree for field setup Display is optional Remote display is optional ** ** ** ** ** ** ** ** **	Field add for sensors	✓	×
Free intuitive graphical user interface Does NOT use antiquated decision tree for field setup Display is optional Remote display is optional ** ** ** ** ** ** ** ** **	Field add for remote display	V	×
Does NOT use antiquated decision tree for field setup ✓ Semote display is optional ✓ ** ** ** ** ** ** ** ** **	User Interface		
Display is optional Remote display is optional ** ** ** ** ** ** ** ** **	Free intuitive graphical user interface	✓	×
Remote display is optional	Does NOT use antiquated decision tree for field setup	✓	×
	Display is optional	✓	×
Display is NOT required for setup	Remote display is optional	✓	×
	Display is NOT required for setup	✓	×





Advantages Over Velocity Pressure

	VorTek	Pitot	Piezo Ring
Measurement Theory			
Primary measurement	V	V	✓
Sensors are stable over time	✓	✓	✓
Every sensor has the same output	✓	✓	×
Every sensor has a linear output	✓	×	×
Sensor/Probes			
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	✓	×	×
Calibration			
NIST traceable standards on entire line	✓	×	×
Sensor/Transmitter tested as a unit	✓	×	×
Sensor/Transmitter NIST as unit	✓	×	×
Electronics			
Microprocessor technology	V	×	×
Field upgradable firmware	✓	×	×
Does NOT require high performance A/D converter	✓	×	×
Low power requirements	✓	V	✓
Simple field airflow calibration	✓	×	×
Transmitter drift free	✓	×	×
Linear airflow output	V	×	×
Modular Design			
One electronics platform for any sensor density	✓	×	×
Field add for BACnet	✓	×	×
Field add for sensors	✓	×	×
Field add for remote display	✓	×	×
User Interface			
Free intuitive graphical user interface	V	×	×
Display is optional	✓	×	×