

**EVERGREEN
TELEMETRY**

**FASTER
EASIER
SAFER**

PRODUCT CATALOG



ONE METER FOR:

Air & Water Pressure, Velocity, Flow
Temperature & Humidity

Free Field Trials Available! Zero Obligation!

www.evergreentelemetry.com

(602) 574-6192

customer.service@evergreentelemetry.com

Advanced Technology for Increased Productivity



Evergreen Telemetry's innovative instrument architecture delivers unprecedented convenience and speed for technicians in the field. An all in one meter for balancing commissions, and troubleshooting. The wrist reporter's wireless technology allows the user to connect up to ten sensors including pressure, temperature, humidity, water, and CO2. The wrist reporter displays real time readings so damper adjustments can be tracked and tested. Store up to 100,000 readings directly in the wrist reporter and download the data into an excel spreadsheet or connect the wrist reporter to a computer and perform a live datalog.



Applications

- Airflow Measurements
- Datalogging
- Room to Room Pressure

Features and Benefits

- Connect up to 10 modules simultaneously
- Continuous readings, wirelessly to your wrist
- Store up to 100,000 data points

The PVF module reads pressure, velocity, and airflow. For room-to-room pressure applications, a user can place up to 10 pressure modules and monitor all 10 concurrently while making adjustments. This allows changes in dampers and fan speed to be evaluated in real time. Faster, easier, and safer. The pressure module can also be used with a capture hood to measure velocity and flow applications. Every pressure module is calibrated against NIST standards and comes with a certificate of calibration.



Applications

- Room-to-room pressure
- Multiple diffuser air flow relationships
- Velocity and duct readings



Specifications

Air Flow..... $\pm 3\%$ of reading ± 7 cfm from 100 to 2500 cfm
 Air Velocity..... $\pm 3\%$ of reading ± 7 fpm from 50 to 8000 fpm Pitot tube; 50 to 5000 fpm foil-type probe
 Air Density Correction.....local air density correction range is 14 to 32 in Hg and 32°F to 158°F
 Differential Pressure..... $\pm 2\%$ of reading ± 0.001 in wc from 0.01 to 10 in wc; ± 10 in wc FS; 100 in wc safe pressure
 Absolute Pressure..... $\pm 2\%$ of reading ± 0.1 in Hg from 14 to 32 in Hg referenced to vacuum
 (corresponds to elevation of 36,000 ft.)
 Battery.....Lithium Ion. 30 hours per charge. Recharge in 4 hours
 Operational Temperature Limits.....40°F to 140°F



Meter-Sensor with Built-In Display

The Meter-Sensor for Temperature & Humidity has an on-board display and can be used as a stand-alone unit when taking quick T&H readings. The module can also be connected to the Wrist Reporter for full psychrometric data, applications that require multiple readings from multiple locations, or datalogging projects. Temperature & Humidity probes specific to the Meter-Sensor come in 5", 12" and 24" lengths for various duct sizes, or unique applications. All Evergreen Telemetry Temperature Probes are interchangeable with the meter sensor for air, surface, or water. The Meter-Sensor modules and probes are calibrated against NIST standards and include a calibration certificate.



SPECIFICATIONS

<u>Range</u>	<u>Spec</u>
-40 to +240 °F	+/- 0.5% of reading + 1.4 °F
+32 to +158 °F	+/- 0.3 °F
Temperature 32 to 125°F	+/- 1.0, 125 to 158°F +/- 3.0
Humidity 10 to 90%, RH	+/- 3.0



The temperature and humidity modules were designed for outstanding accuracy and meet or exceed current industry standards. Modules can be attached to ducts, coils, or grilles and send wireless readings back to the Wrist Reporter. The user can connect as many as 10 modules and view temperature or humidity readings in real time as adjustments are made.

Temperature

The temperature module is designed to be used with three types of temperature probes: air, surface, and water insertion. The modules and probes can be purchased as a complete sensor or individually. All temperature modules and probes are calibrated against NIST standards and include a calibration certificate.



WR Humidity Screen Display



*See page 3 for specifications



WR Temperature Screen Display



Temperature Probes



Humidity

The humidity module is a smart psychrometric sensor. It directly measures temperature (dry bulb), humidity (%RH) and barometric pressure. It calculates complete psychrometric data displaying wet bulb (no wet sock required) enthalpy (h), humidity ratio (w), grain of moisture (gr) and specific volume (v). The humidity module is calibrated against NIST standards and includes a calibration certificate.



Indoor Air Quality is more important than ever to the health, safety, and well-being of building occupants. The CO2 module and Personal Air Safety Reporter (PASR) were designed to monitor air quality through the CO2 measurements in rooms, meeting spaces, and buildings. When indoor air is fresh and safe to breathe, CO2 is low and sufficient outside air is being delivered to wash away air that has been used and contaminated by particles, bacteria, and viruses.

CO2

The CO2 module is designed for TAB and Cx professionals. The on-board display can be used for a quick check of ventilation effectiveness at a single location. The included probe is the standard $\frac{3}{8}$ ", for use in supply ducts. The CO2 module can also be connected to a Wrist Reporter for multiple readings, from multiple locations, or set inside an air handler while readings are received on the outside. The CO2 module is calibrated against NIST standards and comes with a calibration certificate.



PASR

The Personal Air Safety Report or PASR is designed to be left in a room or meeting space so the occupants can visually see how healthy the air quality is around them. The PASR displays the level of CO2 in the air with LED lights indicating when air is in danger of contamination.

Applications

- Schools
- Automobiles or Trucks
- Hospitals, Homes
- Restaurants

Specifications

- CO2 Accuracy: 5% + 50 PPM
- CO2 Range: 400 to 5000 PPM
- Temperature Range: 40F to 120F
- Humidity Range: 10 to 90%



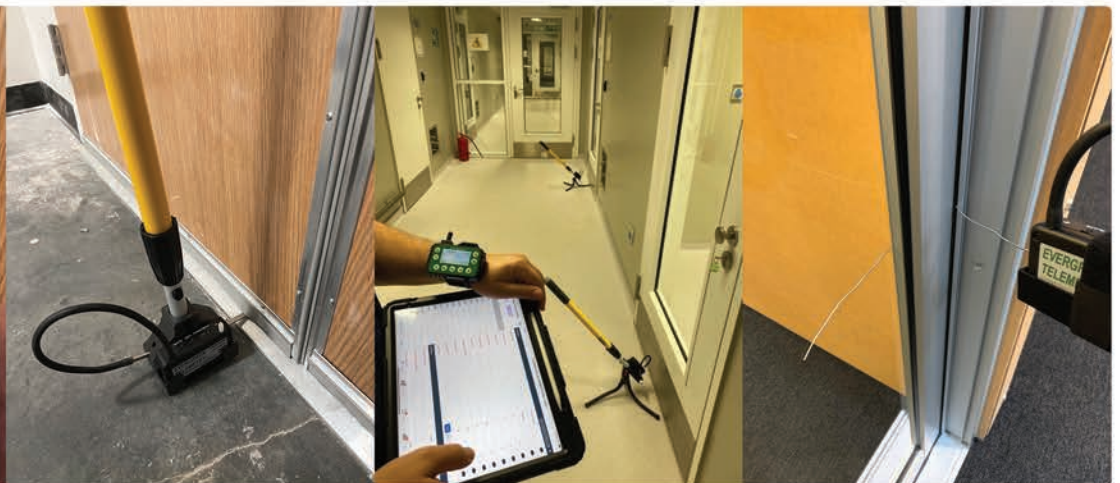
Door Pressure TAB Kit

The Door Pressure TAB Kit is an accessory bundle for use with the Wrist Reporter and Pressure/Velocity/Flow module. It is designed specifically for room-to-room pressure surveying, setting, and adjusting. The Door Pressure TAB kit comes with an over the door probe (hanger), an under-door probe, and around-the-door probe, PVF module block, telescoping handle, and carrying case. Connect as many as eight PVF modules to the Wrist Reporter to view pressure hierarchy, adjust room to room pressures wirelessly and in real time.



Kit Includes

- Under-door probe is made of durable steel for easily sliding under closed doors.
- Around-door probe is made of durable, pliable steel that can be bent around sliding glass doors or any place a tight seal is required.
- Over-door Probe (Hanger) is made of lightweight 3D printed materials. Only 3/32" thick, this probe can fit over most doors and can be left for long periods of time.
- The PVF module block is designed for both the thick and thin probes and can be used stationary in front of a door or used with the telescoping handle to get a room pressure reading without bending down. Faster, Easier, Safer!



Evergreen Telemetry's water module reads up to 250psi. Once connected to the Wrist Reporter, the user can conveniently view high gauge, low gauge, and differential pressure on one screen, wirelessly. Designed to be compact and lightweight for ease of use in the field. Faster. Easier. Safer. The water module is calibrated against NIST standards and comes with a certificate of calibration.

**Kit Includes:**

- 250psi Water Module
- Brass Fittings
- Exhaust and HVAC Hoses
- Carrying Case

**Specifications****Range**

Differential Pressure and Gage Pressure: - 0 PSI to + 250 PSI

Accuracy

Differential and Gage Pressure: 2% of reading + last digit

Max Temp - 140°F



For more information

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All Inclusive
K-TAB-6



TAB Kit case when
closed 23"x15"x9"



MODULES/PROBES		PRICE	K-TAB-4	K-TAB-5	K-TAB-6	K-TAB-7	K-TAB-250
Wrist Reporter with Thumbswitch	WR-401 WR-TS-1	\$2,199	X	X	X	X	X
Pressure / Velocity / Flow Module	S-PVF-1	\$1,099	X	X	X	X	
T&H Sensor with On-Board Display	MS-TH-1	\$199			X		X
T&H Probe for T&H Sensor	PR-TH-1	\$199			X		
Temperature Sensor	RM-T-1	\$149	X	X			
Surface Temperature Probe	PR-T-2	\$99			X		
Water Insertion Temp Probe	PR-T-4	\$149		X	X		
Air Temp Probe	PRT-5	\$99	X	X			
Humidity Sensor (Psychrometric / Temp)	S-H-3-5	\$299		X			
250 PSI Water Module	S-DP-250	\$2,099					

ACCESSORIES

Shock Absorbing Case for Wrist Reporter	\$99		X	X		X
Velocity Grid (Dwyer)	\$99		X	X		
18" Air Foil (Dwyer)	\$259		X	X		
Velocity Grip Handle	\$299			X		
Velgrid Harness	\$99		X	X		
Static Tips & Hoses (Dwyer)	\$59		X	X		
KTAB Case	\$399	X	X	X		
Module Case	\$99				X	
Water Case	\$99					X

Pricing

Kit Price	\$3,599	\$4,699	\$4,999	\$2,999	\$4,999
Total Value	\$3,945	\$5,308	\$5,557	\$3,496	\$4,895
Savings	\$346	\$609	\$558	\$497	\$696

CUSTOM KITS AVAILABLE!

See page 13 for Additional Pricing



For more information

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Capture Hoods

Evergreen Telemetry's line of capture hoods offer different options for different applications. Connect up to 8 hoods, and view up to 4 real-time, continuous, wireless reading on the Wrist Reporter display. With a magnet frame, you can set your hood, and make damper adjustments, with only one trip up the ladder. Faster. Easier. Safer.

Our hoods are manufactured right here in the USA, constructed from high-tech materials. Lightweight, maneuverable, and customizable. The Three Pounder and DIM/BSC for hoods come standard with the Bellmouth Belt. This accessory induces a superior airstream pattern, ideal for return/exhaust mode.

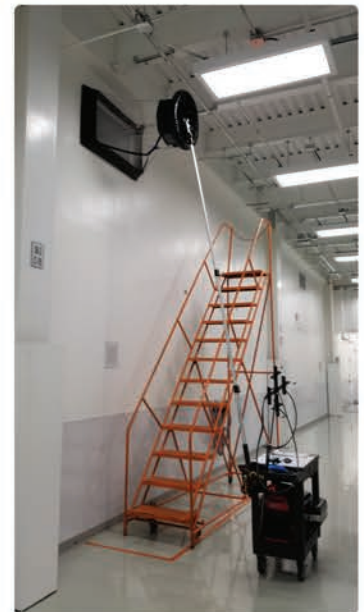


FEATURES

- Weighs much less than conventional hoods
- Designed for reduced backpressure
- Constructed from high-tech materials
- View 4 Hoods on one Wrist Reporter
- Wireless real time readings to the Wrist Reporter

APPLICATIONS

- Commercial Ceiling Diffusers
- Sidewall
- Return Air/Exhaust
- UFAD
- BSC Hoods
- Available CFM Range from 15-3000



Skirt & Frame Options on Page 12

Three Pound Capture Hood (CH-3#)- \$2,299



Kit Includes:

2x2' Skirt and Magnetic Frame
Bellmouth Belt
Flow Plates
Straight Acme Threaded and 90° Sidewall Adapters
2-4' Extension Pole
Wheeled Case with Extendable Handle
(CFM Range 30-3000)

15" Capture Hood (CH-15D)- \$1,799

Kit Includes:

2x2' Skirt and Magnetic Frame
Flow Plates
Acme Threaded, and 90° Sidewall Adapters
Blast Plate for Jet Diffusers
2-4' Extension Pole
Wheeled Case with Extendable Handle
(CFM Range 100-2500)



8" Low Flow Capture Hood (CH-8D)- \$1,699



Kit Includes:

14x14x12" and 14x14x24" Skirts
14x14" Frame
2-4' Extension Pole
Carrying Case
(CFM Range 15-150)

DIM Capture Hood for BSC (CH-DIM)- \$2,299

Kit Includes:

Choice of 8", 10" or 12" Skirt (24" W x 24" L)
Set of Adjustable Side Panels
Corresponding DIM Frame
Bellmouth Belt
Flow Plates
Straight and 90° Adapters
Short and Long Handles
2-4' Extension Pole
Wheeled Case with Extendable Handle
(CFM Range 30-3000)



HOODS		PRICE	K-TAB-8	K-TAB-15	K-TAB-3#
8" Low Flow	CH-8D	\$1,699	X		
15"	CH-15D	\$1,799		X	
3#	CH-3#	\$2,299			X

MODULES/PROBES

Wrist Reporter with Thumbswitch	WR-401 WR-TS-1	\$2,199	X	X	X
Pressure / Velocity / Flow Module	S-PVF-1	\$1,099	X	X	X

ACCESSORIES

Shock Absorbing Case for Wrist Reporter	\$99	X	X	X
Blast Plate	\$99			
Brass Kit & Hoses	\$399			
Module Case	\$99	X	X	X
Water Case	\$99			
Small Hood Case	\$299	X		
Large Hood Case	\$399		X	X

Pricing

Kit Price	\$4,199	\$4,199	\$4,499
Total Value	\$5,494	\$5,694	\$6,194
Savings	\$1,295	\$1,495	\$1,695

CUSTOM KITS AVAILABLE!

Skirts	8"	15"	3#	Frames	Solid	Assembly	With Magnets
6"x48"x34"		\$299	\$299	6"x48"		\$349	
14x14x12	\$199			8"x24"	\$199		
14x14x24	\$199	\$199	\$199	14x14"	\$199		
16x16x24	\$199	\$199		16x16"	\$199		
16x16x34	\$199	\$199		1x2'	\$199		
1x2x24	\$199			2x2'	\$199	\$299	\$349
12x24x36"	\$199	\$199		1x4'		\$299	\$349
24x24x24"	\$199			1x5'		\$299	\$349
1x2x34"		\$199	\$199	1x6'		\$399	
2x2x34"		\$199	\$199	2x4'		\$299	\$349
1x4x34"		\$299	\$299	3x3'		\$399	
1x5x34"		\$299	\$299	3x4'		\$399	
1x6x34"		\$399	\$399	4x4'		\$399	
2x4x34"		\$299	\$299				
3x3x34"			\$399				
3x4x34"			\$399				
4x4x34"			\$399				

DIM for BSC- 3# Only

3#

DIM for BSC Solid

8x24x24"	\$299	8x24"	\$199
10x24x24"	\$299	10x24"	\$249
12x24x24"	\$299	12x24"	\$299



Custom sizes available!



Wrist Reporter

	Price
Wrist Reporter (WR-401) with Thumbswitch (TS-1)	\$2,199
Pressure/Velocity/Flow Module (S-PVF-1)	\$1,099

Temperature and Humidity Sensing Module and Probes

(With built-in display)	Price
Temp and Humidity Module (MS-TH-1) Module only, requires probe.	\$199
Probe(s) only	
5" T&H Probe (PR-TH-1)	\$199
12" T&H Probe (PR-TH-12)	\$199
24" T&H Probe (PR-TH-24)	\$199
Temp and Humidity Sensor Kit 101 (MS-TH-101) Includes Module, 6" Water Insertion Probe and 5" T&H Probe	\$399
Temp and Humidity Sensor Kit 102 (MS-TH-102) Includes Module, 6" Water Insertion Probe, 5", 12" and 24" T&H Probes	\$499

Temperature Sensing Module and Probes

	Price
Temperature Sensor (RMT-1) Module only, requires probe.	\$149
Probe(s) only	
Surface Temperature Probe (PR-T-2) Steel, Button-style, 3/8" dia.	\$99
Insertion Temperature Probe (PR-T-4) Steel Water Insertion Probe, 1/8" dia. x 6"	\$149
Air Temperature Probe (PR-T-5) Air only, 1/4" dia. x 5"	\$99

Complete Sensor

	Price
Surface Temperature Sensor (S-T-2)	\$199
Includes Module and Surface Probe	
Water Temperature Sensor (S-T-4)	\$299
Includes Module and Water Insertion Probe	
Air Temperature Sensor (S-T-5)	\$199
Includes Module and Air Probe	
Humidity Sensor (S-H-3-5)	\$299
Psychrometric sensor for Temperature & Humidity. Measures temperature (dry bulb), %RH, barometric pressure, enthalpy (h), humidity ratio (w), grains of moisture (gr), and specific volume (v).	

Co2 Sensors

(With built-in display – no WR required)	Price
CO2 Sensor (MS-CO2-1)	\$499
Personal Air Safety Reporter (PASR)	\$299

Water Pressure

	Price
250psi Water Module Kit (S-DP-250)	\$2,699
Kit includes HVAC hoses, exhaust hose, brass kit, and case.	
(Module only - \$2,099)	
Water Case (Dewalt)	\$99

Room Pressure Kit and Accessories

	Price
Door Pressure TAB Kit (DP-K)	\$499
Kit includes over, under, and around the door probes, Vertical and Horizontal PVF mounts, magnetic handle, and case	
Over Door Probe	\$299
Under Door Probe	\$99
Around Door Probe	\$99
Vertical or Horizontal PVF Mount	\$99

Accessories

	Price
Wrist Reporter Shock Absorbing Case	\$99
Velocity Grid	\$399
Kit includes handle, tubing, standoffs, ET PVF Clip, Connectors and Hoses	
¾, ½ and ¼ Velocity Grids – \$339/ea. (with Standoffs only)	
18" Air Foil	\$199
Evergreen PVF Module Holder/Clip for Dwyer Velocity Grid	\$49
Velocity Grip Handle (for single-handed traverse)	\$299
Static Tips and Hoses	\$39
Blast Plate for CH-15D (for Jet Diffusers)	\$99

Service

Services include repair and NIST-traceable calibration of Evergreen Telemetry products. Only Wireless Sensing Modules are calibrated. The Wrist Reporter is a digital device optimized for display and storage- it has no role in measurement. Shortridge Instruments HDM & ADM's are calibrated for pressure, temperature, velocity, and airflow. Readings at setpoints are compared to NIST-traceable standards. No adjustments or repairs are performed.

Instruments and Setpoints

The key calibration tool is the Setra 869, the most accurate low-pressure calibrator in the world. The Setra 869 boasts an accuracy of +/- 0.0002 in wc for its lowest range. See the nearby table for nominal test points. Additional test points may be added for a small fee.

- Barometric Pressure (in Hg): 20, 29, 32
- Differential Pressure (in wc): 10, 2, .5, .05, -10, -.05
- Temperature (°F): 33, 75, 140. (New NEBB: -40, +240°F)
- Velocity (FPM): 100, 500
- Airflow (CFM): Velocity and pressure tests are normally sufficient to guarantee airflow

Two-Day Guarantee

Calibrations are two days, in-house, or the service is free.

Calibration Cost	Price	Recommended Recalibration
Pressure Sensing Module: (S-PVF-1)	\$499	2 years
Water Pressure S-DP-xxx	\$499	1 year
Temperature Sensor and Probe	\$198	2 years
Temperature Sensor Probe Only	\$99	2 years
Humidity (Included NEW Sensor Chip)	\$269	1 year
Capture Hood (add to module price)	\$249	Not Required
Shortridge ADM or HDM	\$599	

(Includes rechargeable Ni-MH 1.2v 200 MAH AA batteries)

For Repair and Calibration

Service Request form available online at www.evergreentelemetry.com