



# Zephyr II

## Differential Pressure Meters (Auto-Zeroing)

Differential pressure measurement is a crucial parameter for determining pollutant pathways for IAQ and worker exposure applications. It is also a key HVAC parameter in commercial and institutional buildings and in manufacturing plants, among many other important applications.

Each Zephyr II instrument includes a built-in, auto-zeroing micro-manometer and 'K'-type thermocouple input for measuring differential pressure, static pressure and temperature. The auto-zeroing feature allows for highly accurate differential pressure logging over time. With a pitot tube, the Zephyr provides direct air velocity readings and volume flow rate (VFR). Zephyrs may also be fitted with a telescoping 3-function probe (model 2300 AHTS) to measure humidity, temperature and (hotwire) airspeed /VFR.

The display and menu system provide step-by-step guides for each operation. This ensures minimal user training is required. Volumetric flow is calculated by simply entering the size of the duct and the instrument performs the necessary calculation.

The Zephyr II is a stand-alone instrument. However, with all of its available parameters, it may be interfaced to any GrayWolf DirectSense PPC or LAP mobile PC based system via a CF serial card; opening the door to the full extent of GrayWolf's DirectSense product features.



# data sheet

### •Multiple parameter

Measure Differential Pressure alone, together w/ a K thermocouple temperature probe, with a 2300AHTS %RH/Temperature/Airspeed combo probe, or measure airspeed and VFR with a pitot tube.

### •Standard inputs

Built-in, auto-zeroing micro-manometer  
'K'-type thermocouple  
3-function "smart" probe

### •Large and clear display

Show up to 4 variables simultaneously  
Scroll through all other readings on the display  
Wide viewing angle  
Automatically updated when probes plug in  
On screen instructions for easy operation

### •Data port (Zephyr II+ only)

Allows logged data to be downloaded to Desktop PC for analysis.  
Manual or automatic datalogging available  
Advanced datalogging for unattended surveys

### •Intuitive menu system

Minimal training required  
Easy to use  
Screen prompts guide user through operation

### •Comfortable to use

Large rubber grip and lanyard  
Single-handed operation

### •Easy access to batteries

Disposable or rechargeable can be used  
AC power adapter available

### •Durable housing

Impact resistant  
Lightweight  
Designed for everyday use

### •Probe attachment

3-function %RH/temperature/airspeed probe can be fixed to side of instrument

### •Large pushbutton operation

### •Reporting and analysis software

Simple desktop data analysis and reporting of logged info with included WolfSense PC desktop analysis software (Zephyr II+ only)

### •Optional Mobile PC interface

Connect Zephyr II or II+ to a Pocket PC or Notebook PC with WolfSense application software and a serial card (model ACC-SCCF). May be interfaced *simultaneously* with any GrayWolf DirectSense probe. When interfaced with WolfSense PPC or LAP, stores ALL survey info; data AND text/graphic/audio notes and includes easily accessible, on-board parameter tips, government and industry guidelines.

**GrayWolf Sensing Solutions**

advanced environmental measurements

[www.WolfSense.com](http://www.WolfSense.com)

## Specifications

	Zephyr II	Zephyr II+
<b>Use:</b>	Differential Pressure. Multi-function, designed for use with GrayWolf's 2300 AHTS 3-function probes, K type thermocouple temperature probes and with pitot tubes.	
<b>Inputs available:</b>	Auto-zeroing micro-manometer (built-in) 'K'-type thermocouple 3-function %RH, Temperature, (hotwire) Air Velocity probe	
<b>Power requirements:</b>	3 x C size disposable alkaline batteries Optional AC adapter 100 to 240 V ac 50/60 Hz Rechargeable batteries and separate charger may be used	
<b>Typical battery life:</b>	130 hours (subject to type of probes fitted)	
<b>Operating temp:</b>	0°C to 50°C (32°F to 122°F)	
<b>Operating humidity:</b>	0 to 90% RH	
<b>Material:</b>	Impact resistant ABS	
<b>Ingress protection: b</b>	IP54	
<b>Dimensions:</b>	265 mm x 135 mm x 42 mm (10 1/2" x 5 1/4" x 1 1/2")	
<b>Weight:</b>	0.9 Kg (2 lbs)	
<b>Manual (snapshot) data capture and review:</b>	No	Yes
<b>Averaging facility for duct traversing:</b>	Yes	Yes
<b>Trend (timed) datalogging:</b>	No	Yes
<b>Data download to PC:</b>	No	Yes
<b>Optional Interface to mobile PCs via GrayWolf WolfSense Software:</b>	Yes	Yes

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*GrayWolf reserves the right to change specifications without notice.*

### Standard Zephyr Kits

Part Number:	CLK-Zephyr II	CLK-Zephyr II-plus
<b>Contents:</b>	Zephyr II Instrument	Zephyr II+ Instrument
	Carrying case	Carrying case
	6ft of dual tubing	6ft of dual tubing
		PC Interface Cable
		WolfSense Data Analysis Software

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