



Zephyr II

Differential Pressure Meters (Auto-Zeroing)

Differential pressure (ΔP) 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.

This meter offers excellent low-end ΔP sensitivity and (due to the auto-zeroing capacity) exceptional stability near zero (to 0.5Pa, 0.002 in.H₂O). However, it also provides a very wide ΔP measurement range to +/-6000Pa (+/-25 in.H₂O).



Product Features:

- **Tried and true, rugged design**
- **Multiple parameter**
Measure Differential Pressure alone, together w/ a K-type 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-logging (Zephyr II+ only)**
Manual or automatic datalogging available.
Advanced datalogging for unattended surveys.
Logged data downloads to Desktop PC for analysis.
- **Intuitive menu system**
Minimal training required.
Easy to use.
Screen prompts guide user through operation.
- **Comfortable to use**
Large rubber grip.
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 analytical software**
GrayWolf's highly advanced, easy-to-use WolfSense™ PC data reporting software is included with the Zephyr II+ (on CD-ROM and USB key) for analysis of logged data.
Optional WolfSense ARG software automates Report generation.



GRAYWOLF® SENSING SOLUTIONS

PH. 1-203-402-0477 FAX: 1-203-402-0478

EMAIL:
SALESTEAM@GRAYWOLFSENSING.COM

WEBSITE:
WWW.GRAYWOLFSENSING.COM

Specifications

	Zephyr II	Zephyr II+
Use:	Differential Pressure. Multi-function, designed for use with GrayWolf's 2300 AHTS 3-function probes, K type thermocouple temperature probes and with pitot tubes.	
Inputs available:	Auto-zeroing micro-manometer (built-in) K-type thermocouple 3-function %RH, Temperature, (hotwire) Air Velocity probe	
Power Requirements:	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	
Typical battery life:	130 hours (subject to type of probes connected)	
Pressure range:	+/-6000 Pa, +/-25 inH ₂ O, +/-600 mmH ₂ O, +/-60 mbar, +/-42 mmHg	
Pressure resolution:	0.1 Pa, 0.001 inH ₂ O, 0.01 mmH ₂ O, 0.001 mbar, 0.001 mmHg	
Pressure accuracy:	+/- 1% rdg +/- 0.4Pa (0.002 inH ₂ O)	
Operating range:	0°C to 50°C (32°F to 122°F), 0 to 90% RH	
Material:	Impact resistant ABS, water resistant to IP54	
Dimensions:	265 mm x 135 mm x 42 mm (10½" x 5¼" x 1½")	
Weight:	0.9 kg (2 lbs)	
Manual (snapshot) data capture and review:	No	Yes
Averaging facility for duct traversing:	Yes	Yes
Trend (timed) data logging:	No	Yes
Data download to PC:	No	Yes
Optional Interface to mobile PCs via GrayWolf WolfSense Software:	Yes	Yes

GrayWolf Sensing Solutions

6 Research Drive
Shelton, CT 06484
Phone: 203-402-0477
Fax: 203-402-0478

GrayWolf Sensing Solutions

Tuamgraney Industrial Estate
Tuamgraney, Co Clare, Ireland
Phone: (353)61921736
Fax: (353)61921528



GrayWolf reserves the right to change specifications without notice.

Standard Zephyr Kits:

Part Number	CLK-Zephyr II	CLK-Zephyr II-plus
Contents	Zephyr II instrument	Zephyr II+ instrument
	Carrying case	Carrying case
	6ft of dual tubing	6ft of dual tubing
		PC interface cable, USB
		WolfSense PC Data Transfer Software

GrayWolf Sensing Solutions
advanced environmental instrumentation

www.GrayWolfSensing.com