

Advanced Environmental Instrumentation

Harnessing the Power of Mobile Computing



✓ Surveyed

✓ Documented

✓ Reported



Example Tablet Screens:

ZEPHYR™ LDP MICROMANOMETER

Differential Pressure Module



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The GrayWolf Zephyr-LDP module, which connects to Windows tablets/laptops/PCs for display and datalogging, has exceptional low-end accuracy, yet a wide range. Auto-ranging ΔP sensors combine with auto-zeroing for outstanding performance.

- Differential Pressure accurate to 0.1 Pa, 0.002 inH₂O (switchable units)
- Broad range ±10,000Pa, ±40 inH₂O
- The built-in DP sensor module is *both* auto-zeroing and auto-ranging for unparalleled true resolution, accuracy and range
- Add an optional, highly accurate temperature and relative humidity probe
- Optional barometric pressure sensor which compensates gas mass concentration, dew-point, specific humidity, absolute humidity, humidity ratio and other derived readings.
- Connect Pitot-Static tubes to measure broad-ranging airspeeds, over wide °C/°F ranges
- Display, Trend Log over time or Snap Log instantaneous and/or averaged readings
- Add Audio, Text and other notes to data files on-site
- Generate professional reports with supplied software, automated reports with optional WolfSense® ARG
- On-board educational documents, user tips and video help
- Flexible, powerful, and Easy-To-Use



ZEPHYR™ LDP MICROMANOMETER

Differential Pressure Module

✓ Measure Smart ✓ Report Efficiently

▼ Optional **RH-AS2** %RH/ °C/°F probe shown at left with optional **ACC-RH-HDLA** handle with 1m cable



SPECIFICATIONS:

General:	
PC Download/Reporting Software Req's:	Windows 8/Vista/10
Dimensions:	90mm (3.5") w. x 150mm (6.0") h. x 25mm (1.0") d.
Construction:	Rugged polycarbonate plastic with rubberized side grips. IP64
Weight:	85gr (3.0oz)
Mounting:	1/4" - 20 tpi thread (on back) for optional belt clip, mini tripod/stand, etc.
Operating Range:	-10°C to 50°C (15°F to 122°F), 0 to 100 %RH non-condensing

Power:	
The Zephyr-LDP is powered via the connected Tablet/Laptop/PC.	
Power Draw:	100mA Normal operation – taking readings 210mA Total power draw for a few seconds while the auto-zeroing solenoid is activated

Built-in Differential Pressure Sensors (included):	
Differential Pressure Range:	±10,000Pa, ±40 inH ₂ O, ±1000 mmH ₂ O, ±100 mbar, ±70 mmHg
Resolution:	0.1Pa, 0.001 inH ₂ O, 0.01 mmH ₂ O, 0.001 mbar, 0.001 mmHg
Accuracy (auto-zeroing enabled)	±1% of rdg ±0.1Pa up to 250Pa, ±1%rdg ±4Pa >250Pa (±1% of rdg ±0.001 inH ₂ O to 1.000 inH ₂ O, ±1%rdg ±0.015 inH ₂ O >1.000 inH ₂ O)

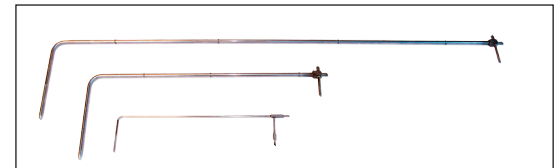
Differential Pressure is auto-ranging for enhanced low-end detection, yet a broad range. For exceptional accuracy, it is also auto-zeroing (every 2 minutes by default but zeroing frequency is user adjustable to 5 minutes or OFF)

RH-AS2 %RH/Temperature Probe (optional):	
Relative Humidity Range/Acc:	0 to 100 %RH non-condensing. ±2%RH <80%RH(±3%RH)>80%RH
Air Temperature Range/Accuracy:	-15°C to +70°C ±0.3°C (5.0°F to 160.0°F ±0.5°F)
Dimensions:	54mm (2.1") L, 14mm (0.55") Ø

▼ GrayWolf's unique **PIT-504-KIT** expandable pitot tube kit which comes standard with 4 stages, and can be expanded with up to 2 additional extensions to over 2m (80"), all fitting into a convenient 42cm (16.5") long carrying pouch



Optional GrayWolf supplied 30mm, 50mm or 100mm (12", 19" or 39") pitot tubes (or use your own) ▼



SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT FURTHER NOTICE

GrayWolf offers a variety of WIN10 tablets (**MN10-RT2** rugged tablet shown) with the WolfSense LAP app pre-installed (or use your own) ▼



▼ **ACC-TU2M** dual tubing (2m)



◀ **PCC-22Z** hard-shell case with foam cuts for Zephyr-LDP (or Zephyr III), rugged or standard tablet, PIT-504-KIT, RH-AS2, tubing, cable and other accessories.



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