



## Zephyr II Range

### Environmental monitoring for HVAC and process plant engineers

The Zephyr II range of portable instruments is specifically designed for HVAC and plant engineers to measure many different parameters. Used as part of a routine maintenance programme they can significantly reduce plant running costs and save energy by ensuring processes are set for optimum performance.

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. They can also be fitted with a range of smart probes to measure volume flow, humidity, dew point, temperature, rotational speed, particulates and airspeed.

The Zephyr II range has been designed with the user in mind. The large rubber grip and lanyard ensures the unit is comfortable to use allowing pushbutton operation even with gloves on. A probe can be attached to the side of the instrument for single-handed operation. The large display allows up to sixteen parameters to be read easily

The display and menu system provide step-by-step guides for each operation which is automatically updated when probes are fitted. This ensures minimal user training is required.

Data capture is included as standard to allow duct traversing. Volumetric flow is calculated by simply entering the size of the duct and the instrument performs the necessary calculation. The Zephyr II+ includes advanced datalogging.

Measurements can be presented in units to suit individual applications, including SI, metric and imperial.

#### Standard inputs

- Built-in, auto-zeroing, micro-manometer
- 'K' type thermocouple

#### Large and clear display

- Measure up to 16 variables simultaneously
- Scroll through readings on display
- Wide viewing angle ensures readings are always visible
- Automatically updated when probes plugged in
- On screen instructions for easy operation

#### Data port (II+ only)

- Allows logged data to be downloaded to spreadsheet for analysis
- Manual or automatic datalogging available
- Advanced datalogging for unattended surveys

#### Intuitive menu system

- Minimum 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

#### Smart probe connectors

- Two smart probes can be fitted at one time
- Allows more measurements to be taken simultaneously
- Wide range of probes available

#### Multi-function probe

- Simultaneous measurement of several parameters
- Convenient single package

#### Durable housing

- Impact resistant
- Lightweight
- Designed for everyday use

#### Probe attachment

- Smart probe can be fixed to side of instrument

#### Large pushbutton operation

- Can be operated with gloves on



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### Zephyr II Range

Specification		
<b>Use</b>	Multi-function, designed for use with range of Solomat smart environmental probes	
<b>Inputs available</b>	Auto-zeroing micro-manometer (built-in) 'K' type thermocouple 2 x smart 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 temperature</b>	0C to 50C (32F to 122F)	
<b>Operating humidity</b>	0 to 90% RH	
<b>Material</b>	Impact resistant ABS	
<b>Ingress protection</b>	IP54	
<b>Dimensions</b>	265 mm x 135 mm x 42 mm (10 <sup>1</sup> / <sub>2</sub> " x 5 <sup>1</sup> / <sub>4</sub> " x 1 <sup>1</sup> / <sub>2</sub> "	
<b>Weight</b>	0.9 Kg (2 lbs)	
	<b>Zephyr II</b>	<b>Zephyr II+</b>
<b>Manual data capture and review</b>	Yes	Yes
<b>Averaging facility for duct traversing</b>	Yes	Yes
<b>Advanced datalogging</b>	No	Yes
<b>Data download to PC</b>	No	Yes

### Standard Kits

Part number	ZEP100	ZEP200
<b>Contents</b>	Zephyr II instrument. 203A 'K' type thermocouple. Carry case.	Zephyr II+ instrument and carry case. 203A 'K' type thermocouple. 2300 AHTS 3 function smart probe. AC power adapter. PC interconnecting cable. CS2000 data analysis software.

### Possible measurements include:

<b>Differential pressure</b>	Yes	Yes
<b>Temperature</b>	Yes ('K' type thermocouple)	Yes ('K' type thermocouple and Pt100)
<b>Air velocity</b>	Yes (pitot static tube required)	Yes (hot wire)
<b>Volumetric flow rate</b>	Yes (pitot static tube required)	Yes (hot wire)
<b>Static pressure</b>	Yes	Yes
<b>Humidity</b>	No	Yes
<b>Dew point</b>	No	Yes

For technical data or alternative measurements refer to individual probe datasheets

Not all probes available in all countries.

This publication is not intended to form the basis of a contract and the company reserves the right to amend the design and specification of the instruments without notice.