

SIDEPAK™ Personal Sampling Pumps



Real Different
Real Smart
Real Easy

Personal Sampling Pumps

Smart Battery Management System

You've been there before. You grab a sample pump fresh off the charger, set it up, and at the end of the day, you find out that the battery didn't last the entire work shift! The whole day is wasted!

Never again, if you use the SIDEPAK Personal Sampling Pumps with the Smart Battery Management System! Know how many hours of run time you'll get before you start sampling. The built-in "gauge" in the SIDEPAK battery packs monitors battery condition and provides precise run time information in minutes.

Advanced Flow Control

Calibrating sample pumps is time consuming. You set up the external calibrator, attach your sample pumps and then proceed to adjust them. You make pre- and post-sample flow measurements to come up with an estimate of average flowrate and then calculate volume sampled from total run time.

Why guess when you can measure? SIDEPAK Personal Sampling Pumps with built-in precision flowmeters eliminate the day-to-day need for time-consuming calibration, saving you valuable time and money. Just set the SIDEPAK flow display to the desired flowrate and start sampling! It's that easy!

What you don't know can ruin your sampling results. You've seen it before. Pinched sample tubes, clogged inlet conditioners and sample media, and even sabotage!

With the SIDEPAK pumps, unintended flow interruptions are measured and accounted for in total sample flow rate and volume measurement. The flowmeter simply adjusts the pump speed as needed to maintain the flow rate setpoint.

Data Logging of Flow

With conventional pumps, it takes significant time to measure and estimate average flow with an external calibrator, determine sample run time, calculate an estimate of total volume sampled and then give your best estimate to the laboratory.

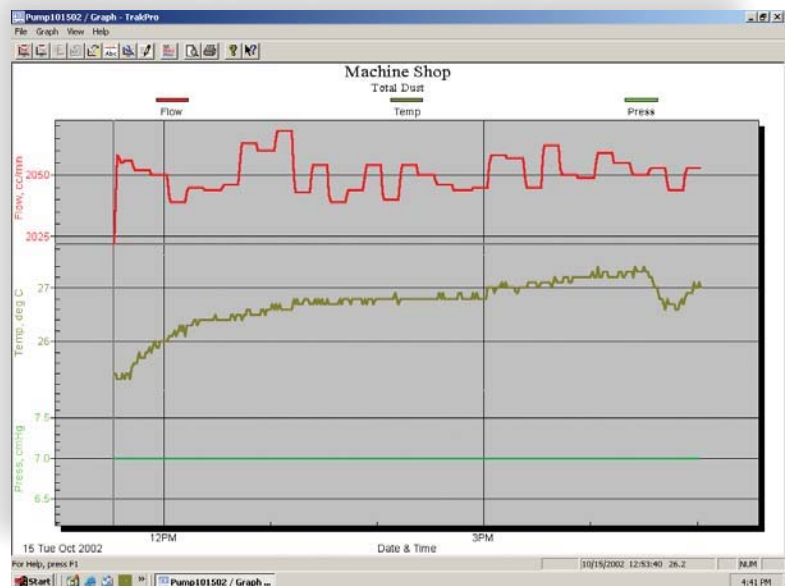
The SIDEPAK pump's built-in data logging continuously records flow readings and accurately computes

total sample volume even if interruptions occur. Your Industrial Hygiene Lab has never seen this level of sample reporting accuracy!

Document your results using TRAKPRO Data Analysis Software to download, display and print the recorded sample history. A sample report template accommodates your additional reporting requirements.



SIDEPAK SP730 weighs only 16 oz with 1650 NiMH pack



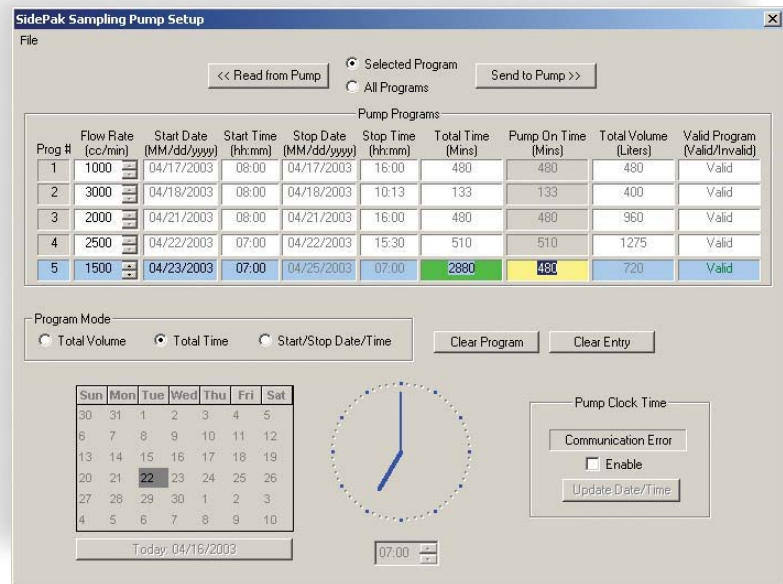
"...As shown on the attached graph, sampling was completed without any significant flow interruptions. Detailed report sent with sample to IH lab for analysis."

Workplace Solutions

TRAKPRO™ Data Analysis Software

Exposure monitoring is a complex business. With TRAKPRO software, you can easily program the SIDEPAK Personal Sampling Pumps from your PC for multi-mode operation.

- Program the pump for time-based operation and let it measure sample volume
- Specify the sample duration with a delayed start, or program specific start/stop times using the internal real-time clock/calendar
- Use volume-based sampling and have the pump stop when the predetermined volume setpoint is achieved
- Manually start/stop (any number of times) and let the pump compute sample volume
- Program for intermittent sampling by specifying the amount of sample run time and the total duration of the sample period



Integrated Internal Low Flow Bypass

Unlike conventional pumps, the SIDEPAK SP730 Personal Sampling Pump permits precise low-flow control and measurement, without an awkward external bypass controller.

Sorbent tube heaven! There is no need to use an external calibrator to set low flow rates. Simply engage the integrated internal low-flow bypass, set

the desired low flowrate and start sampling. That's it! The internal flowmeter takes over and precisely maintains the flow at the selected flow setpoint.



Personal Sampling Pumps

SIDEPAK SP330 and SP350 Pumps

The SIDEPAK SP330 and SP350 pumps are rugged, basic pumps. They offer a choice of battery packs that incorporate TSI's *Smart Battery Management System*. The SP330 is a 3-liter pump, and the SP350 is a 5-liter pump.



SIDEPAK Personal Sampling Pumps display run time information in minutes.

- **Smart Battery Management System**
 - Minutes of run time are displayed
 - Real-time battery condition, not just an estimate of % battery remaining
 - Integrated microchip technology
- **Multiple Battery Options**
 - Intrinsically safe, rechargeable 1650 mAH or 2700 mAH NiMH battery packs
 - 6-cell AA-size battery pack
- **User keypad programming**
 - Sample run time
 - Flow setpoint
 - Delayed start
 - Keypad lock



SIDEPAK Sampling Pumps

Feature	SP330	SP350	SP530	SP730
Flow Range (cc/min)	20 to 3,000	20 to 4,000	20 to 3,000	20 to 3,000
Smart Battery Management System	•	•	•	•
Choice of NiMH or AA-size Battery Packs	•	•	•	•
Internal Battery Charger	•	•	•	•
Keypad Programming	•	•	•	•
Flow Block Detection and Auto-restart	•	•	•	•
Intrinsically Safe Models Available	•	•	•	•
Keypad Lockout	•	•	•	•
Multiple Lightweight Configurations	•	•	•	•
Continuous Flow Mode	•	•	•	•
Constant Pressure Mode	•	•	•	•
Internal Low Flow Bypass				•
Internal Precision Flowmeter			•	•
Continuous Data Logging of Flowrate Data			•	•
Logging of Both High and Low Flow				•
Intermittent Sampling Capability			•	•
TRAKPRO Data Analysis Software			•	•

Four models available to meet your needs.

For Your Applications

SIDEPAK SP530 Pump

The SIDEPAK Model SP530 pump offers all the features of the SP330 plus an additional precision flowmeter that acts as a secondary flow measurement standard. Unlike conventional pumps, this 3-liter pump continuously measures and data logs flowrate over a very wide range to provide precise control, accurate total sample volume and average flowrate information.

- **Advanced precision flowmeter control**—
No assumptions of flowrate or total volume, because it is continuously measured
- **Multi-mode operation**—Run preset sampling programs, or start and stop manually
- **Data logging of flow**
 - Automatically data log flowrate, run time and total sample volume
 - Unintended flow interruptions measured and accounted for in the total sample volume
 - Gain increased confidence in your logged results
- **TRAKPRO Data Analysis Software**
 - Program custom sample protocols from your computer
 - Generate comprehensive reports
- **Unparalleled flowrate calibration**
 - Advanced internal precision flowmeter with unequaled performance
 - Check and standardize periodically against a primary calibration standard to validate flowrate measurements

Visit www.tsi.com for detailed specifications.



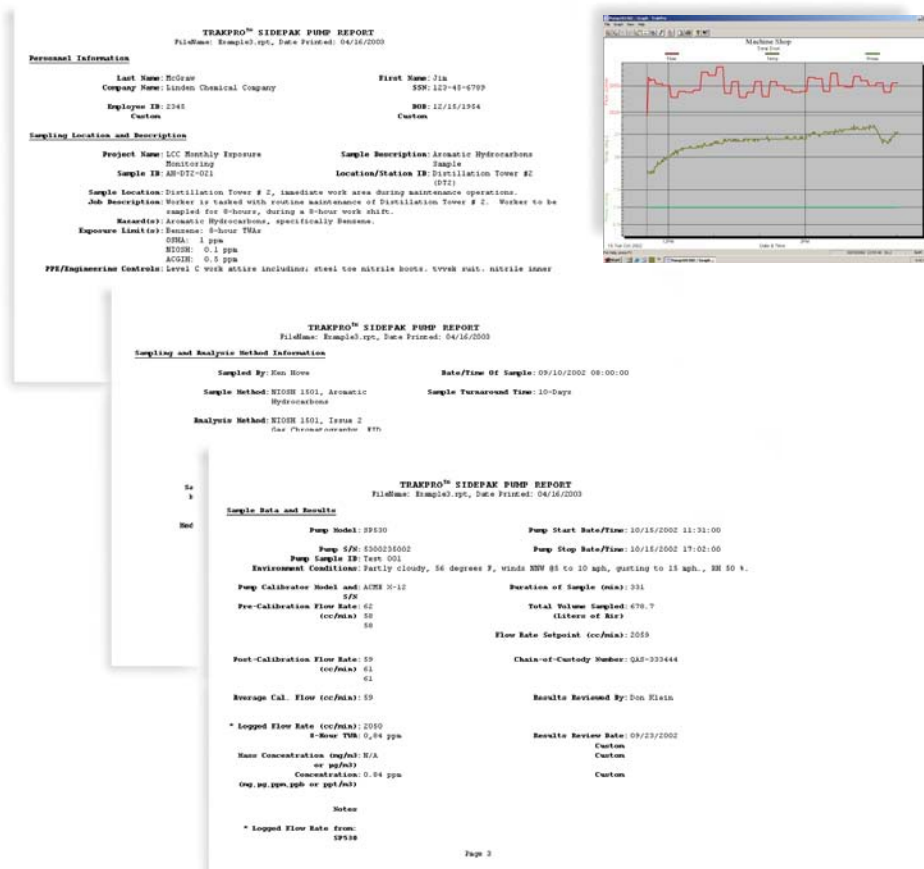
SIDEPAK SP530
shown with optional
cyclone kit.

Personal Sampling Pumps

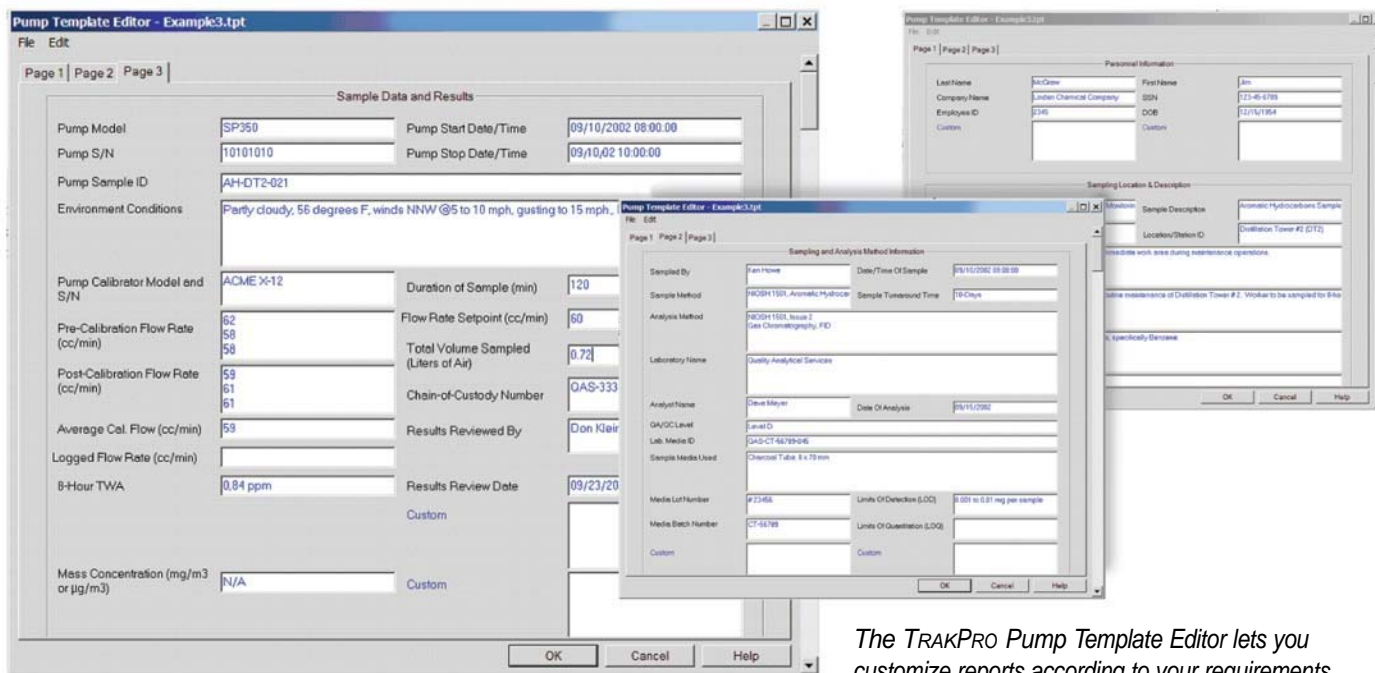
Report Generation with TRAKPRO Data Analysis Software
 TRAKPRO Data Analysis Software lets you program and retrieve sample history right from SIDEPAK SP530 and SP730 pumps.

- Program from your PC for multi-mode operation
 - Time- and volume-based, manual and intermittent options
- Comprehensive pump information
 - Average flowrate and total sample volume
 - Start and stop time/date and total sample time
 - Pump model and serial number
- Customize the report format using Pump Template Editor. Then merge the sample pump history for a comprehensive occupational exposure monitoring report.

It's as easy as that! No more tedious hand-written reports! Your Industrial Hygiene Lab is going to thank you for this!



Quick and comprehensive reports.



The TRAKPRO Pump Template Editor lets you customize reports according to your requirements.

Software, Kits, and Accessories

Accessories and Replacement Parts

SIDEPAK Personal Sampling Pump systems are designed to be worn by workers during a work shift to monitor exposure to ambient aerosols, gases or vapors. This system consists of three components: the personal sampling pump, sampling media holder and sample collection media.

In addition to the SIDEPAK pump family, TSI offers comprehensive choices for personal sampling accessories and replacement parts. Accessories include:

- Single and multiple sorbent tube kits
- Filter cassette kits
- Cyclone kit
- Low flow adapter/constant pressure controller
- Primary and secondary calibration standards
- Pump service kits
- Carry cases



The specific components required for sampling tests are determined by the contaminant/chemical of concern and appropriate NIOSH methods. For more detailed information on NIOSH sampling methods, check the NIOSH website at www.cdc.gov/niosh.



SIDEPAK sampling pumps are available as kits or single units. SIDEPAK SP530 five-unit kit shown.

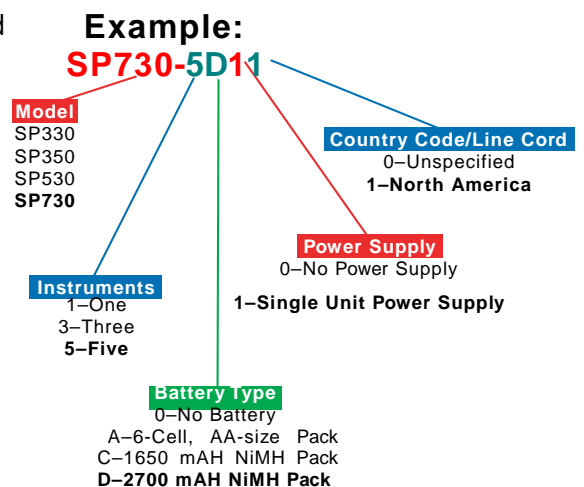
Kits

SIDEPAK Personal Sampling Pumps are available in kits and single units with your choice of NiMH or AA battery packs. Kits include sample pumps, battery packs, power supplies, TRAKPRO software*, USB cable*, carry case, screwdriver, certificate of conformity and user guide. Choose from single, 3-pack and 5-pack kits.

*Included with Models SP530 and SP730.

Choose the SIDEPAK kit that's right for you

Start with one of TSI's four SIDEPAK models and then select the number of instruments, battery type, power supply and country code to configure the kit to match your requirements.



TSI—your partner in workplace health and safety

For years, TSI has been in the workplace with you—monitoring exposure, measuring air quality, fit testing respirators and much more. Our products are known for their innovation, superior technology and dependability.

**SIDEPAK™ AM 510
Personal Aerosol Monitor**
Real-time aerosol concentration and 8-hour TWAs plus Smart Battery Management System.



P-TRAK™ Ultrafine Particle Counter

Used successfully in thousands of investigations to eliminate IAQ complaints.



**PORTACOUNT® Plus
Respirator Fit Tester and N95-Companion™**
Fit test the easy way!

DUSTTRAK™ Aerosol Monitor
Measure aerosol concentration in real time or data log unattended.



**Q-TRAK™ Plus
IAQ Monitor**
The professional's choice for measuring and logging traditional IAQ parameters.



**VELOCICALC® Plus
Multi-Parameter Ventilation Meters**
Comprehensive family of ventilation meters.

