



ELECTRONICALLY CONTROLLED GAS SUPPLY SWITCHOVER SYSTEMS

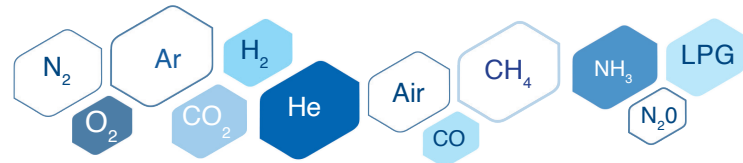
Feel secure knowing that your gas supply is under control and fully utilized while also eliminating costly downtime. DataSMART is designed for input from a wide range of gas sources and effective in countless applications.

THE SIMPLE WAY TO TAKE FULL CONTROL OF YOUR GAS USAGE

GAS FLEXIBILITY

DataSMART supply switchover systems support a wide range of industrial and specialty gases including atmospheric, some flammables and more.

+ Gases Used



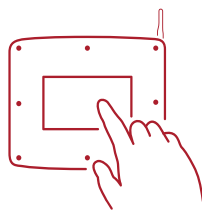
SUPPLY MODE FLEXIBILITY

Enjoy the freedom to use high pressure cylinders, liquid dewars or bulk supply. The touchscreen provides helpful graphics to display system status.



CONVENIENT CONNECTIVITY

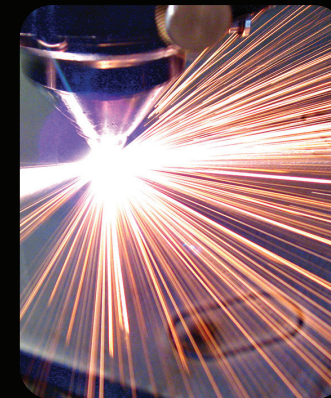
While the primary and secondary gas must be the same, they can be different gas supply types. You can connect as many cylinders as needed using a Harris modular manifold system.



CUSTOMIZE WHEN THE SWITCHOVER IS MADE

Bank switching is fully automatic, and you can customize when the switch is made. The user-friendly touchscreen includes an option to set the desired switchover pressure level. There is no need to open the unit to change dip switches. A simple touch of the screen and the system is set.

HOW THE DATASMART™ IS USED IN YOUR INDUSTRY



ANALYTICAL INDUSTRY

Uninterrupted supply of high-purity gas is central to success in analytical laboratories. The enhanced control of programmability, Check Back, touchscreen access, historical data, rapid analysis and alerts are especially valuable in many laboratories, including gas chromatography, mass spectrometry, and CO2 incubators.

METAL FABRICATORS

DataSmart is specifically designed to be used with laser cutting gases. Shops that use nitrogen or oxygen as an assist gas in laser cutting operations face inefficiency challenges. The benefits of the DataSMART system can provide cost savings.

WELDING JOB SHOPS

When estimating a job, it is important to understand the costs involved. With the historical data and analytics that you can access through DataSMART, you can get a very accurate picture of the costs.

FOOD PROCESSING

Precise control of gases is critical in the food processing industry. DataSMART can provide heightened control and economic advantages in a variety of applications, such as nitrogen and CO2 in food packaging and argon in analytical testing.

MODEL 763 DATASMART™

For Industrial and Specialty Gases

The DataSMART 763 manifold is a gas distribution system used to monitor, control and switch the flow of gas from high-pressure cylinders, liquid cylinders or bulk gas containers while maintaining a settable, constant delivery pressure to the facility or process. The manifold offers two stage pressure control to the downstream pipeline assuring precise delivery pressure control.



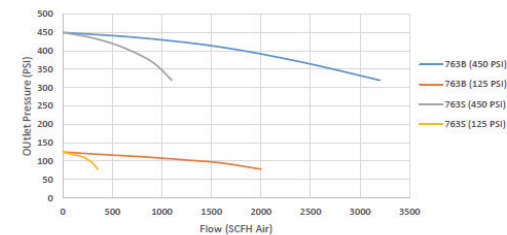
FEATURES

- » LCD Touchscreen control
- » Built-in, Wifi -based telemetry system and data acquisition via a remote server (connection to a Wifi network required)
- » Customized alerts and notifications via email and SMS
- » Check Back Feature for liquid dewars
- » Economizer for reserve side liquid dewars
- » Secure login to protect settings
- » Optional mass flow meter to measure current gas usage or usage over time
- » 500 scfh heater for CO₂ and N₂O or mixtures
- » Optional Remote A/V Alarm
- » Modular, expandable header system for multiple cylinders
- » Designed for high purity or industrial grade gases
- » Brass and SS models available

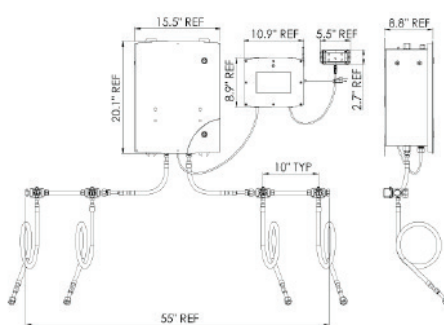
TYPICAL APPLICATIONS

- » Analytical Laboratory
- » Manufacturing Facilities
- » Research Facilities
- » Pharmaceuticals
- » Welding/Metal Fabrication
- » Food Processing
- » Calibration Gases
- » Chemical Processes
- » Laser Assist Gases

GAS FLOW CURVES



MOUNTING DIMENSIONS



MODEL 764 DATASMART™

For Healthcare Facilities

The DataSMART 764 a fully-automatic, electronically controlled gas switchover system that meets the requirements of NFPA-99. The DataSMART can provide continuous supply of gas from a variety of sources including high-pressure cylinders, liquid cylinders or bulk gas containers.



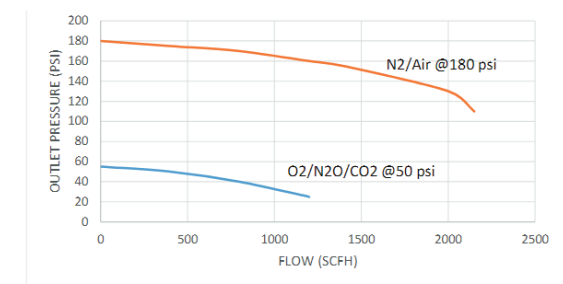
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- » Economizer for reserve side liquid dewars
- » Secure login to protect settings
- » Dual line regulators for high pressure cylinders
- » 500 scfh heater for CO₂ and N₂O or mixtures
- » Optional Remote A/V Alarm
- » Modular, expandable header system for multiple cylinders
- » Dry contacts for master alarm and nurses stations
- » Optional Emergency Back-up Header and Dual Bypass Manifold to ensure compliance with NFPA-99 for systems configured with a dewar on one or both sides

TYPICAL APPLICATIONS

- » Hospitals
- » Surgery Centers
- » Clinics
- » Extended Care Facilities
- » Nursing Homes
- » Hyperbaric Chambers

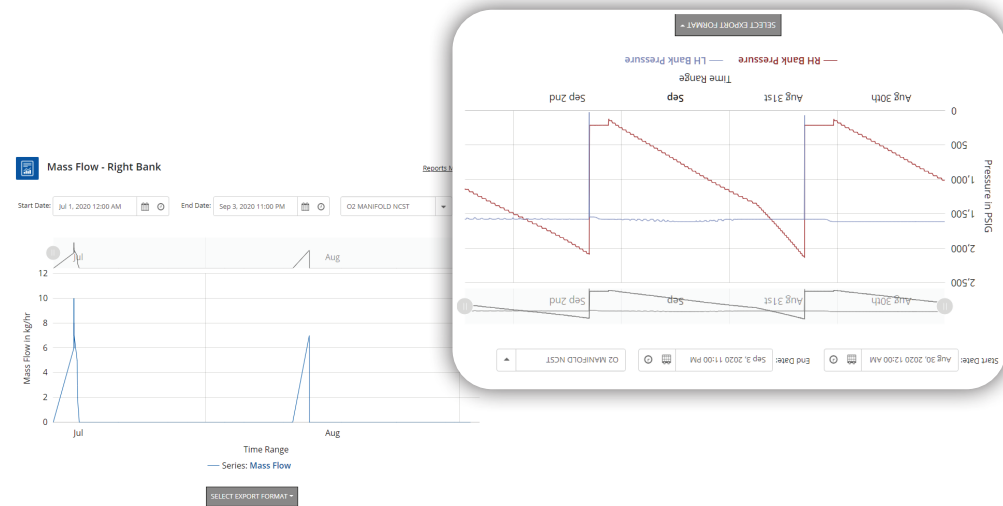
GAS FLOW CURVES



TYPICAL CONFIGURATIONS



IN-DEPTH ANALYTICS IN YOUR HANDS



GAS USAGE

By utilizing the DataSMART's mass flow meter option, you can generate reports on how much gas has been used over specific periods of time. Get a clear picture of the amount of gas used for each specific project or if there are significant leaks in your gas distribution system.

GAS SAVINGS

After switching to the secondary container, DataSMART monitors the pressure on the primary container for a period of time. If the pressure increases, the Check Back feature will switch the system back to the primary source and utilize the remaining gas with pressure monitoring for both the primary and secondary sources.

DATA COLLECTION

Collect, store and monitor gas supply pressure vs. time for both primary and reserve banks to ensure reliable gas supply to the process.

REMOTE ACCESS

Remotely monitor, track and control your gas system using DataSMART's proprietary software. Sync to your computer, laptop, smartphone or device through a secured, cloud-based system.



DATASMART CONTROL

Control Panel:

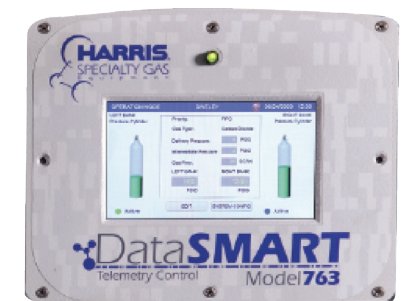
- 7" touchscreen LCD display,
- LED lights, switches

Input:

- 85-265VAC, 50/60Hz

Communication:

- Wi-Fi, GSM/SMS

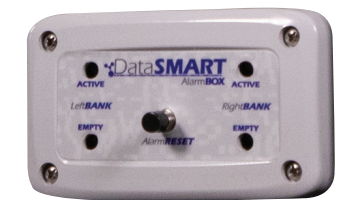


TELEMETRY BOX CONNECTIVITY

The DataSMART's telemetry box can connect to pressure transducers or a pre-existing manifold system. Through network or GSM/SMS connectivity, it can alert you directly through email or text.

ALARM NOTIFICATION

- Sound Level:** 70 decibels
- Range:** 200 ft



DATASMART SUBSCRIPTION SERVICE

DataSMART Production Analytics puts the full power of smart gas control at your fingertips. This comprehensive platform records your data, analyze it and provides insights into your productivity and efficiency.



CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company[®] is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed. Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

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