

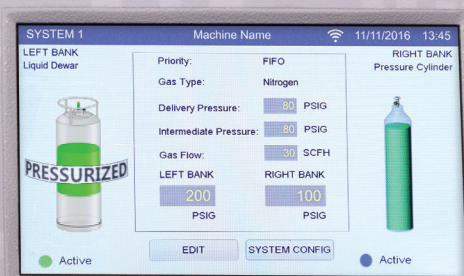
# THE SMART AUTOMATIC SWITCHOVER SYSTEM

LOOKING FOR EFFICIENCY  
AND PEACE OF MIND?  
GET SMART!

**ART**<sup>TM</sup>  
Model **763**

Source  
ACTIVE

EMPTY



**DataSMART**<sup>TM</sup>  
Telemetry  
Model **763**





# INTRODUCING THE SIMPLE WAY TO TAKE FULL CONTROL OF YOUR GAS USAGE

**SOUND BUSINESS STRATEGIES — the ones that smart businesses use to succeed — are centered around data. In order to FULLY MAXIMIZE the significant investment that you have made in your gas system, DataSMART™ uses the most advanced reporting features in the market today.**

Now you can gain peak efficiency in this area of your business. You can feel secure knowing that your gas usage is under control and fully utilized, while also eliminating costly downtime.

DataSMART™ is designed for input from any gas source and is suited for a wide range of applications. From low-pressure applications in analytical labs to high-pressure applications in heavy fabrication welding shops, our multi-function programmable logic control (PLC) can monitor, manage and visually report critical aspects of your gas usage.

Even though DataSMART™ works as a fully automatic switchover manifold, it provides so much more.

If you cannot measure a business process, then you cannot manage it and you cannot improve it. A touchscreen-based interface, easy to sync on your mobile devices, allows you to put all aspects of your gas system at your fingertips. Now you can bring your gas usage into the age of smart analytics with DataSMART™.



**ALL ASPECTS OF YOUR  
GAS SYSTEM  
ARE NOW AT YOUR  
FINGERTIPS**




# SMART<sup>+</sup> FEATURES


  
DATA COLLECTION

  
MONITORING

  
LCD TOUCHSCREEN  
CONTROL

  
INTEGRATED WI-FI  
TELEMETRY SYSTEM

  
CAN BE USED WITH  
MULTIPLE GAS SOURCES

  
VISUAL GAS SOURCE  
GRAPHICS DISPLAY

  
CHECK BACK FEATURE  
TO OPTIMIZE GAS USAGE

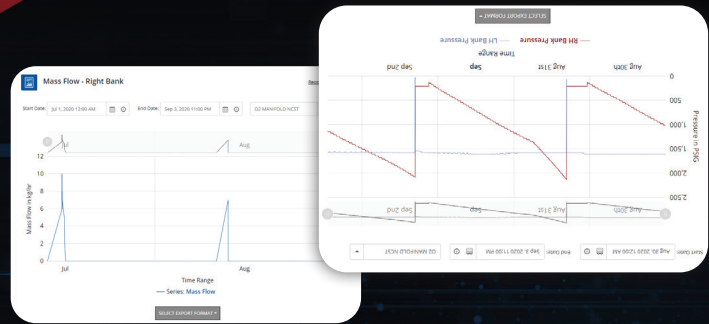
  
OPTIONAL  
MASS FLOWMETER  
TO MEASURE GAS USAGE





# AVOID DOWNTIME

DataSMART™ can tell you exactly how much gas you have left, and not just the pressure, you get a more insightful understanding of your gas supply. Automatic, real-time text alerts and an alarm notification will warn you when your gas is at pre-set trigger point so you can avoid costly downtime. Utilizing all of this data, including the recorded dates of every switchover, you can easily schedule your deliveries precisely when you need them and for exactly the amount that you need for the utmost in efficiency.



## DATA UTILIZATION

Beyond the real-time readings of the volume of gas used in each source container, **DataSMART collects historical data so you can identify gas consumption trends over time.** It will monitor gas flow and usage, as well as collect and store data so you can keep costs down and be successful.

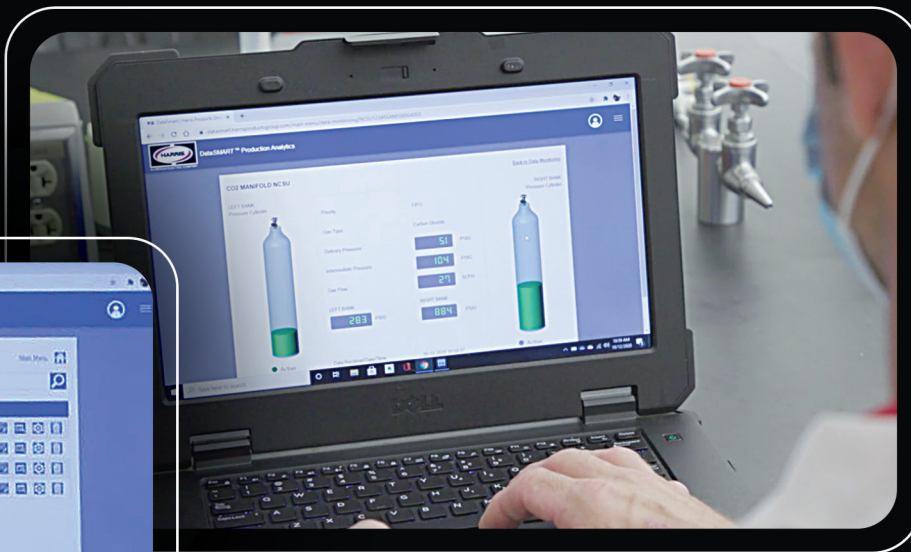
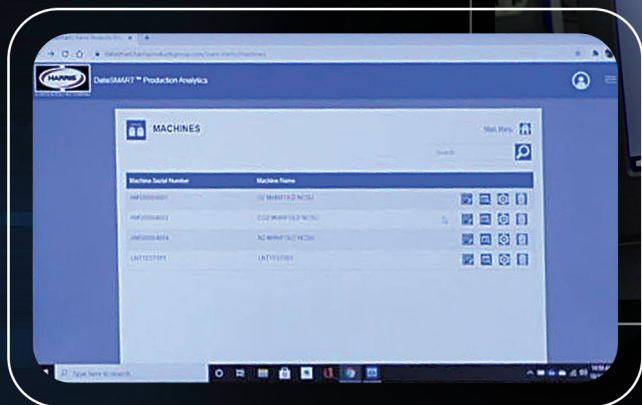


## DATA VISUALIZATION

**Now you can remotely monitor, track and control your gas system using DataSMART's proprietary software.** Put the full control of efficiency and usage of your gas expenditure with in-depth analytics in your hands, wherever you are, with easy syncing to your computer, laptop, smartphone or device through a secured, cloud-based system.







## GAS SAVINGS

Stop sending residual gas back to the supplier. Instead, start getting the most out of your liquid source containers. **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.



## GAS USAGE BY VOLUME

By utilizing the DataSMART's mass flow meter option, you can generate reports on how much gas has been used over periods of time, whether it is the previous year, the previous month or even the previous hour.

Not only will you gain a more accurate understanding of your overall usage, but you can also get a clear picture of the amount of gas used for each specific project. You can also determine if there are significant leaks in your gas distribution system by comparing the amount of gas purchased to the amount used.





# FEATURES

- + Fully automatic bank switching
- + LCD monitoring for gas banks of delivery side
- + Delivery side pressure control via pressure regulator
- + Touch screen GUI display
- + Alarm
- + GSM/SMS connectivity for text alerts
- + Webserver connectivity for email alerts
- + Wi-Fi connectivity

## SPECIFICATIONS

- + **Max. Inlet Pressure:** 5,800 PSIG/400 bar
- + **Delivery Pressure:** 35-500 PSIG/2-34 bar
- + **Max. Flow:** Up to 3,000 SCFH (Air)
- + **Enclosure:** Plastic, NEMA 4, Class 1 Div. 2
- + **Available Heater Option for CO<sub>2</sub>**
- + **Cleaned for CGA oxygen service per G-4.1**





## GAS FLEXIBILITY

DataSmart™ works with atmospheric gases and some flammable gases from bulk, cylinder or liquid dewars.

### + Gases Used



## ATTACH ALL FORMS OF GAS SUPPLIES



Enjoy the freedom to use bulk, cylinders, dewars and more. The GUI will provide helpful graphic prompts to guide you.

## 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.



# CONTROL PANEL AND POWER SUPPLY



## SPECIFICATIONS

### Control Panel:

7" touchscreen LCD display,  
LED lights, switches

### Input:

85-265VAC, 50/60Hz

### Communication:

Wi-Fi, GSM/SMS, ethernet

### Models:

763 (manifold), 762 (telemetry box)







## 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

### SPECIFICATIONS

**Sound Level:**

70 decibels

**Enclosure:**

Plastic

**Range:**

200 ft



REPORTS	
Report Name	
Inlet Pressure vs Time	<a href="#">View Reports</a>
Outlet Pressure vs Time - Right Bank	<a href="#">View Reports</a>
Outlet Pressure vs Time - Left Bank	<a href="#">View Reports</a>
Flow Rate vs Time - Right Bank	<a href="#">View Reports</a>
Flow Rate vs Time - Left Bank	<a href="#">View Reports</a>
Mass Flow vs Time - Right Bank	<a href="#">View Reports</a>
Mass Flow vs Time - Left Bank	<a href="#">View Reports</a>

## ADVANTAGES OF A DATASMART SUBSCRIPTION SERVICE

To harness the full functionality of the DataSMART™ system, the Harris Products Group provides a subscription service, DataSMART Production Analytics, that puts the full power of smart gas control at your fingertips. This comprehensive platform records your data, analyzes it and provides practical and robust insights into your productivity and efficiency.



# HOW DATASMART™ IS USED IN YOUR INDUSTRY

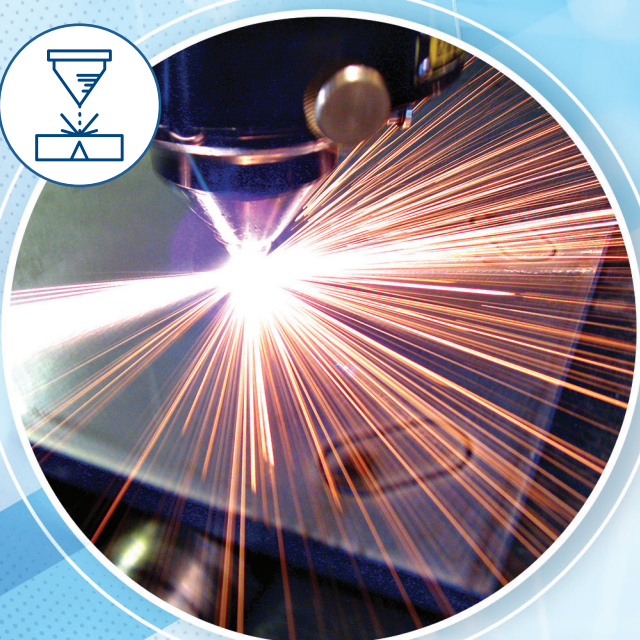


## ANALYTICAL INDUSTRY

Uninterrupted supply of high-purity gas is central to success in analytical laboratories.

**DataSMART provides a switchover with high-leak integrity, maintaining gas purity.**

Additionally, the enhanced control of programmability, Check Back, touchscreen access, historical data, rapid analysis and multiple alerts via email and SMS are especially valuable in many laboratories, including gas chromatography, mass spectrometry, and CO<sub>2</sub> incubators.



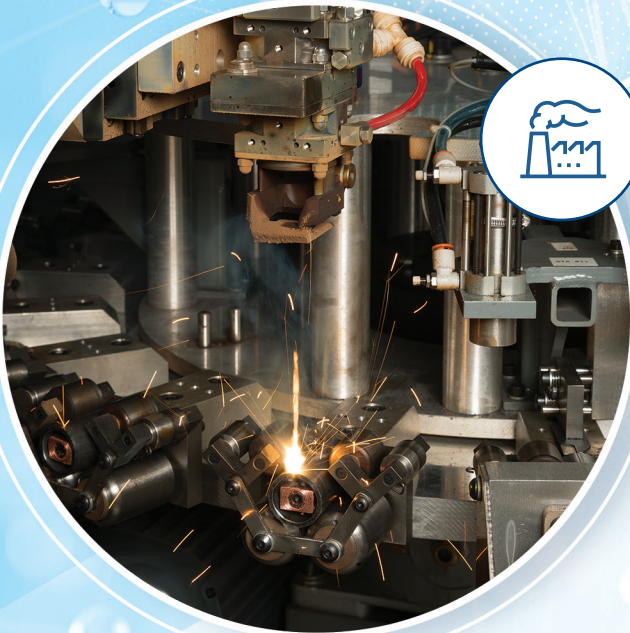
## METAL FABRICATORS

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 can find it to be a source of great inefficiencies. However, **this provides a huge opportunity for cost savings through an investment in the DataSMART system.**



## 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.**



## MANUFACTURING

DataSMART is the perfect way to enhance your analytics and improve efficiency to your processes. With this availability of robust data and analytics, **the added insight into your operations will provide management with even more resources to find areas of improvement.**



## FOOD PROCESSING

Precise control of gases is critical in the food processing industry, and people's health and safety depend on it. **DataSMART can provide heightened control and economic advantages** in a variety of applications, such as nitrogen and CO<sub>2</sub> in food packaging and argon in analytical testing.





**DataSMART™**

is a registered trademark of  
The Lincoln Electric Company

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PN: 9700350  
Rev C  
042022

