

EZ-GAZ™

Visibility. Control. Savings for Gas

Description of service: Managing gas supply is a small part of your overall operation, however, it can be time consuming. Your daily challenges may include estimating how much gas is left in your tank and when to reorder, overstocking or exchanging early to avoid runouts, and spending too much time manually tracking gas levels and switching-out cylinders. All of these routine tasks prevent you from focusing on your core activities, while adding substantial waste and unnecessary costs. As part of the Airgas Supply Chain Solutions, EZ-GAZ is a new and unique digital gas monitoring service that helps you optimize and monitor your gas supply—get peace of mind with simply knowing what you have now and when you need more.



EZ-GAZ Remote

Features



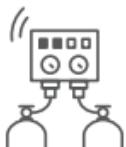
- **Monitor gas content levels in real-time and at your convenience**

- Get instant and accurate gas content data
- Reduce frequency of pressure checks on cylinders and tanks
- Avoid unnecessary field inspections with remote online contents visibility



- **Get automatic alerts when your preset gas pressure level is detected, no matter where you are**

- Simplify gas ordering and replenishment on Airgas.com
- Improve inventory management with accurate change out forecasting and reliable supply
- Limit gas waste with improved supply solutions



- **Optimize your gas supply and delivery equipment for your operation**

- Tap into Airgas expertise to determine the best supply mode and equipment: cylinders, packs and more
- Multiple configurations are available for cylinders—from single to packs with automatic changeover panels. Custom configurations increase safety, reduce waste and minimize changeouts.



- **Access gas pressure levels throughout your installation, wherever and whenever**

- Identify excess gas use and address operational issues with accurate usage and consumption data using the Airgas.com portal

How EZ-GAZ works



Installation of EZ-GAZ is simple and quick—this digital system requires no wiring and is compliant with current FCC regulations and codes. EZ-GAZ Remotes can be installed on enabled gas delivery equipment, such as regulators wall mounts and changeovers. Once installed, your data is safely collected and securely transmitted to your account, with real-time access that immediately improves the way you manage your gas supply.



EZ-GAZ™ Single Cylinder Applications

Description of application:

There are many applications where a single cylinder of gas adequately meets the need. It is important to understand the primary purpose of the gas. The optimal gas delivery system is one that the end user is required to interact with as seldom as possible.

EZ-GAZ can provide these valuable services:

- Reduce run-out risks and rush delivery costs with real time gas monitoring and low-pressure alerts
- Minimize valuable time and personnel resources spent on point-of-use gas pressure monitoring and order management
- Avoid gas waste and enhance operational performance with optimized gas supply modes and equipment upgrades engineered by our experts
- Improve forecasting using the EZ-GAZ digital platform to follow the evolution of your gas consumption



Cylinder and regulator used with EZ-GAZ

Equipment

Example Applications:

- Precision Calibrations – Zero or Mixture gases connected to instrumentation
- Process Monitoring – Mixture gases connected to process monitors
- Regulatory Compliance -EPA related emissions monitoring for stack, flare, boiler, storage and other processes in power, refining, chemical and other segments
- Research, bio-tech, pharma, commercial, QC and manufacturing labs for analyzers, incubators and production
- Manufacturing and metal fab welding, cutting, heat treating and additive manufacturing
- Food production, packaging and testing

How EZ-GAZ works with single cylinder gas delivery systems:



Installation of EZ-GAZ is simple and quick—this digital system requires no wiring and is compliant with current FCC regulations and codes. EZ-GAZ Remotes can be installed on enabled gas delivery equipment, such as the model Z8RMW regulators wall mount. Once installed, your data is safely collected and securely transmitted to your account, with real-time access that immediately improves the way you manage your gas supply.

EZ-GAZ Equipment Gas Delivery Equipment	Regulator Wall Mount	
	Brass	Stainless Steel
Ultra-Zero Air Service CGA 590	Y15Z8RMWB1FCVA5-AL	Y15Z8RMWS1FCVA5-AL
Carbon Dioxide Service CGA 320	Y15Z8RMWB1FCVCD-AL	Y15Z8RMWS1FCVCD-AL
Nitrogen (Inert) Service CGA 580	Y15Z8RMWB1FCVN2-AL	Y15Z8RMWS1FCVN2-AL
Oxygen Service CGA 540	Y15Z8RMWB1FCVO2-AL	Y15Z8RMWS1FCVO2-AL
Flammable Gas Service CGA 350	Y15Z8RMWB1FCVH2-AL	Y15Z8RMWS1FCVH2-AL
Mild Corrosive Service CGA 660	Y15Z8RMWB1FCVA6-AL	Y15Z8RMWS1FCVA6-AL
Corrosive Service CGA 330	Y15Z8RMWB1FCVHC-AL	Y15Z8RMWS1FCVHC-AL

EZ-GAZ™ Multiple Cylinder Applications

Description of Application:

There are many applications where a single cylinder of gas does not provide assurance of consistent uninterrupted supply of gas. In some cases, a worker cannot be everywhere monitoring every point of gas delivery. Continuous uninterrupted supply of gas is required to assure the gases' purpose of use. A changeover manifold system gas delivery device must be used to manifold multiple cylinders of packs together. Changeover manifolds are used to mechanically or electronically switch from an exhausted or empty cylinder to a full one.

Changeovers are used with a minimum of two cylinders and can be expanded to unlimited numbers of cylinders. Changeover manifold systems switches at a preset pressure and the system is reset to switch in the reverse direction. An EZ-GAZ remote must be used to monitor each side of the changeover manifold, the "in use" side and the "reserve" side.



Changeover manifold used with EZ-GAZ

EZ-GAZ can provide these valuable services to your gas delivery system.

- Reduce run-out risks and rush delivery costs with real time gas monitoring and low-pressure alerts, changeovers require personnel to exchange exhausted cylinders when continuous flow of gas is required
- Minimize valuable time and personnel resources spent on point-of-use gas pressure monitoring and order management
- Avoid gas waste and enhance operational performance with optimized gas supply modes and equipment upgrades engineered by our experts
- Improve forecasting using the EZ-GAZ digital platform to follow the evolution of your gas consumption

Example Applications:

- Manufacturing – Gases connected to processes such as oxidizers, carbonizers and machinery
- Process Analytics – Pure gases are connected to instruments for quality control
- Reacting – Gases like oxygen and hydrogen are used in chemical reactions for material processing
- Automated process – such a robotic welding, cutting, and additives manufacturing (aka 3D printing)
- Packaging – Food is blanketed with gases to maximize life span or increase aesthetic properties
- Blanketing – Gases are used for ultra-clean processes, such as semiconductor chip manufacturing
- pH Control – Carbon dioxide is used to lower pH in wastewater for cleaning and disinfecting

How EZ-GAZ works with single cylinder gas delivery systems:



Installation of EZ-GAZ is simple and quick—this digital system requires no wiring and is compliant with current FCC regulations and codes. EZ-GAZ Remotes can be installed on changeover manifolds, such as the model 8404. Once installed, your data is safely collected and securely transmitted to your account, with real-time access that immediately improves the way you manage your gas supply.

EZ-GAZ Equipment Gas Delivery Equipment	Model 8404 Changeover – 1 cyl. x 1 cyl.	
	Brass	Stainless Steel
Ultra-Zero Air Service CGA 590	Y11Z8404BR1A5V-AL	Y11Z8404SR1A5V-AL
Carbon Dioxide Service CGA 320	Y11Z8404BR1CDV-AL	Y11Z8404SR1CDV-AL
Nitrogen (Inert) Service CGA 580	Y11Z8404BR1N2V-AL	Y11Z8404SR1N2V-AL
Oxygen Service CGA 540	Y11Z8404BR1O2V-AL	Y11Z8404SR1O2V-AL
Flammable Gas Service CGA 350	Y11Z8404BR1H2V-AL	Y11Z8404SR1H2V-AL

Specialty Gas Equipment

Wireless System

MONITORING SYSTEM

EZ-GAZ™ Healthcare Applications

Description of Application:

Gases used in healthcare have critical applications. Gases used for life sustaining purposes, such as oxygen, must be monitored by medical professionals at all times. It is vital for all healthcare facilities to have accurate pressure monitoring in place for all gases. Single cylinder and changeovers are used with medical grade gases. Changeover systems are used in the central gas supply area to provide large volumes of gas to the facility. Single gas systems are mostly used for diagnostic or instrumentation purposes.



EZ-GAZ can provide these valuable services to your gas delivery system.

- Reduce run-out risks and rush delivery costs with real time gas monitoring and low-pressure alerts, medical facilities cannot risk run-out for obvious reasons.
- Minimize valuable time and personnel resources spent on point-of-use gas pressure monitoring and order management
- Avoid gas waste, enhance operational performance and reduce excess inventory with optimized gas supply modes and equipment upgrades engineered by our experts
- Improve forecasting using the EZ-GAZ digital platform to follow the evolution of your gas consumption

Example Applications:

- Life Sustaining Gases – Gases connected to living beings, such as oxygen USP for respiratory therapy
- Anesthesia – Gases like oxygen USP and nitrous oxide USP are mixed for numbing agents
- Gas delivery systems and back-up manifold monitoring – central delivery supply station monitoring
- Equipment – Medical gases such as nitrogen and air are used to power surgical tools and equipment
- Insufflation – Carbon dioxide USP is used to inflate body cavities for arthroscopy and laparoscopy
- Healthcare Analytics – Mixture gases are connected to instruments for critical diagnostics

How EZ-GAZ works with single cylinder gas delivery systems:



Installation of EZ-GAZ is simple and quick—this digital system requires no wiring and is compliant with current FCC regulations and codes. EZ-GAZ Remotes can be installed on medical grade changeover manifolds, such as the Compact or Hybrid R_x. Once installed, your data is safely collected and securely transmitted to your account, with real-time access that immediately improves the way you manage your gas supply.



EZ-GAZ Equipment Gas Delivery Equipment	Regulator Wall Mount		Header & Adapter for EZ-GAZ Remote	
	Brass	Stainless Steel	Header 2x2	Adapter
Air USP CGA 346/950	Y15Z8RMWB1FCVA5-AL	Y15Z8RMWS1FCVA5-AL	Y15HCHM04346-AG	Y99ZHCEXTKIT-AG
Carbon Dioxide USP CGA 320/940	Y15Z8RMWB1FCVCD-AL	Y15Z8RMWS1FCVCD-AL	Y15HCHM04320-AG	Y99ZHCEXTKIT-AG
Nitrogen NF CGA 580/960	Y15Z8RMWB1FCVN2-AL	Y15Z8RMWS1FCVN2-AL	Y15HCHM04580-AG	Y99ZHCEXTKIT-AG
Oxygen USP CGA 540/870	Y15Z8RMWB1FCV02-AL	Y15Z8RMWS1FCV02-AL	Y15HCHM04540-AG	Y99ZHCEXTKIT-AG
Nitrous Oxide USP CGA 326/910	Y15Z8RMWB1FCVN3-AL	Y15Z8RMWS1FCVN3-AL	Y15HCHM04326-AG	Y99ZHCEXTKIT-AG

Always There