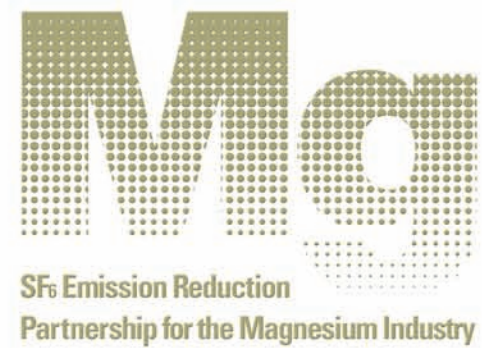


## POLYCONTROLS' EXPERTISE

By constantly working in close partnership with the magnesium industry, Polycontrols has become recognized for executing reliable gas conversion which meets new environmental regulations. We developed a unique expertise in the design and manufacturing of gas mixers that use new alternative processes for the protection of molten magnesium. Our clients rely on us to deliver innovative and effective solutions to optimize their processes and reduce their operating costs.

Our GMX gas mixers meet the highest standards of the American Authorities such as the US EPA, OSHA and NFPA. Our products are certified and approved to report GWP emissions and comply with the UNFCCC for carbon credits certifications.

Polycontrols is an ISO 9001 and ISO 17025 certified company. Our stringent quality assurance procedures and our dedication to offer exceptional service is the assurance of the high quality of our products.



## Magnesium Melt Protection



## ON-SITE SERVICES & CALIBRATIONS

Polycontrols offers personalized on-site calibration and maintenance programs to insure the integrity and the reliability of our systems. These services meet the same strict requirements as those carried out in our laboratories. Our calibration reports are NIST traceable and meet regulatory requirements for reporting gas emissions.

“Our customers appreciate our personalized services and abilities to meet their respective requirements.”

## OUR COMMITMENT TO QUALITY

Our main objective is to respond to our customer's specific requirements and offer value added in services based on our expertise in flow measurements and the quality of our services. Polycontrols is certified under ISO 9001 and ISO 17025. Audits are conducted on regular basis to maintain our registration and ensure continuous compliance with recognized standards.

Each gas mixer is tested and calibrated at its own specific operating conditions to ensure a perfect integration. Certified United States National Institute of Standards and Technologies (NIST) calibration reports are issued to confirm the accuracy of the equipment and meets the national standards.

“Our gas mixers are designed and tested to perfectly fit specific requirements of existing equipments such as Mg die-casters, alloying and recycling units.”

### OFFICES

Montreal 450.444.3600  
Vancouver 604.278.1887  
San Diego 619.993.5968  
Houston 713.203.3585  
New York 631.723.2346

### POLYCONTROLS TECHNOLOGIES INC.

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# POLYCONTROLS

· SO<sub>2</sub> · Novec 612™ · HFC-134a

### EFFECTIVE MAGNESIUM MELT PROTECTION

Our Gas mixers are designed and tested to prevent Mg oxidation with all applications related to the magnesium industry including:

- Hot chamber furnaces
- Cold Chamber furnaces
- Melting & Dosing furnaces
- Recycling units
- Alloying units
- Ingot casting machines
- Primary metal production plants

“All our products are traceable to N.I.S.T. and comply with the UNFCCC for the emission of Carbon Credits.”

### ALTERNATIVES TO SF6 IN EXISTING MOLTEN MG PROCESSES

With a Global Warming potential (GWP) of 23,900 times stronger than CO2 and a 3,200-year atmospheric lifetime, SF6 emissions reductions are a growing concern for many national governments and companies around the world.

Alternatives such as Dilute SO2, Novec 612™ and AM-Cover™ (HFC-134a) are approved by the UNFCCC to replace the usage of SF6 in existing molten magnesium processes. Fluorine-based cover gas such as Novec612™ and AM-Cover™ are excellent alternatives where confined spaces are present. Dilute SO2 has outstanding results in large applications where gas saving are crucial.

### CARBON CREDITS

On February 1, 2008 the CDM Executive Board of United Nations Framework Convention on Climate Change (UNFCCC) has adopted an approved baseline and monitoring methodology for CDM project activities related to the replacement of SF6 with alternative cover gases in the magnesium industry (Methodology AM0065).

This methodology is an important step in the Kyoto mechanism for the emission of Certified Emission Reductions credits (CERs). As SF6 is recognized as an extremely potent and persistent greenhouse gas, replacement of SF6 has a significant impact on the environment and generates quantities of valuable Carbon Credits. The sale of these Carbon Credits by existing users which move forward and convert their old SF6 processes before the end of the Kyoto protocol has positive financial impact and leads to an attractive source of revenues.

“Instead of waiting for the imposition of more stringent regulations, the Mg industry can take advantage of the approved SF6 reduction programs and sell Carbon Credits to overcome conversion costs and generate extra revenues.”

### NEW MG MELT PROTECTION TECHNOLOGIES

Suitable for all non SF6 melt protection technologies that are commercially available, our GMX Series procures a clean and cost effective solution to reduce operating costs while meeting new environmental regulations. Polycontrols GMX Series is adapted and approved for a variety of processes such as: Dilute SO2, Novec612™ and AM-Cover™ (HFC-134a).

### ENTIRE PLANT CONVERSION IN ONE SINGLE STEP!

GMX Series covers a broad range of applications and offers the wider production capacity on the market. This makes it perfectly suited to convert an entire facility in one single step.

### INDUSTRY LEADING TECHNOLOGY

Our fit-and-forget technology provides superior gas saving and ensures better immunity against process variation. Our fail-safe design eliminates downtime and the GMX flexible platform allows easy integration into existing magnesium plants.

### PROTECTION AGAIN TOXIC GASES

The self contained design and the exceptional integrity of our GMX Series eliminates the need to build expensive gas handling rooms. Its built-in security features protect operators and plant equipments against exposure to toxic gases.



**POLYCONTROLS**