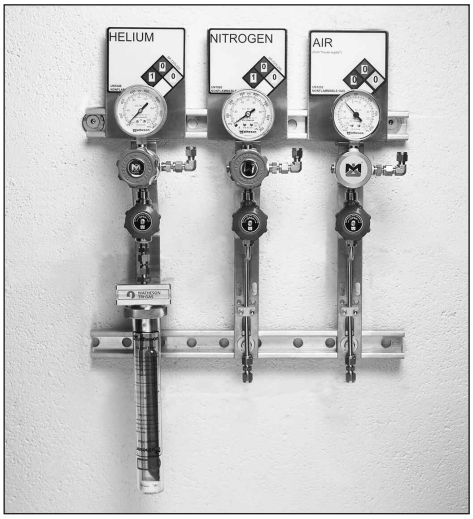
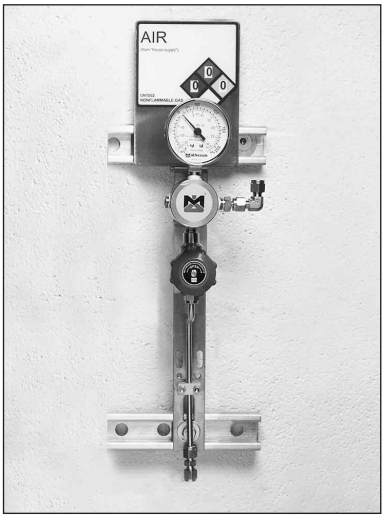
GasTrak™ Delivery/Control Systems



GasTrak™ System (delivering 3 gases)



Single GasTrak™ Station

Introduction

Matheson's GasTrak™ Control Systems represent a practical approach to controlling and delivering low or high purity gases for distribution to "point-of-use" locations to meet the operating requirements in today's laboratory environment. GasTrak™ Systems provide a cost effective, efficient and safer alternative to maintaining gas cylinders in the laboratory environment as the main source of gas supply. The GasTrak™ Control System is a simplified design which offers the ability to regulate gas operating pressure, provide gas purification and flow control within a single dedicated "GasTrak™ Station" for each specific gas being utilized and distributed within the lab. The individual "GasTrak™ Stations" can be wall mounted at the point-of-use for local instrument source control; or each of the individual "GasTrak™ Stations" can be combined into a complete system to provide centralized source control of multiple gases being used.

Design Features/Components

- Ideal for High (UHP 99.999%+) or Low Purity Gas Delivery – available in brass or stainless steel materials.
- Control features include: Pressure Regulation, Purification and Flow Control.
- Provides individual gas control/delivery stations for "point-of-use" delivery to analytical instruments.
- Combines up to five gases into a central control system.
- Gas specific labeling for each individual control/delivery station.
- Three Operating Pressure Ranges: 0-30 psig / 0-100 psig / 0-200 psig.*
- 1/4" Compression Fitting Standard inlet & outlet connections.
- Design allows convenient access to all components.
- Compact design is cost effective to implement.
- Pre-assembled system design prior to shipment.
- Wall mounted U-Channel frames make it easy to install.

Applications

- Provide the end-user with efficient control and delivery of multiple gases for individual instrument point-of-use or for controlling multiple gas sources within a single centralized system.
- Control the delivery of gases for several instruments, a specific zone (location) within a lab or the entire gas delivery requirements into a laboratory.

Materials of Construction

Wetted Components:	Brass or stainless steel
Regulator Seat:	Telfon
Valve Seat:	Kel-F
Purifier Cartridge Housing:	Glass encased w/polycarbonate housing
Purifier Baseplate:	Anodized aluminum
U-Channel Frame:	Aluminum (incl. attachment hardware)

Specifications

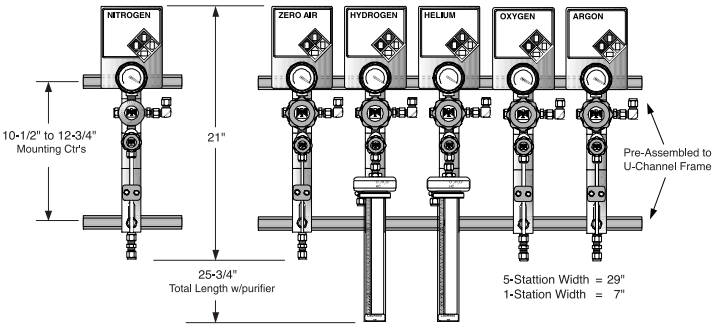
Typical Gases Delivered:

Acetylene	Helium	Nitrous Oxide
Air	Hydrogen	Oxygen
ZERO Air	Methane	P5 – 5% Ar / CH_4
Argon	Nitrogen	P10 – 10% Ar / CH_4
		Vacuum

Operating Pressures (3 Ranges):	0-30 psig 0-100 psig 0-200 psig*
Optional Features:	3/8" Compression Fitting – Brass or Stainless Steel 1/2" Compression Fitting – Brass or Stainless Steel

** 0-150 psig max with purifier.*

Standard GasTrak™ System Dimensions & Assembly



The U-Channel frame makes installation convenient and cost effective

GasTrak™ Delivery/Control Systems *(continued)*

Ordering Information

How to Select and Order a GasTrak™ Delivery System:

An individual GasTrak™ Station for a single gas or a complete GasTrak™ System (consisiting of up to a maximum of five GasTrak™ Stations) is selected and constructed from the designated "Order Selection Code" letters and numbers assigned to each component listed in Sections '1' thru '6' below. Simply select the appropriate Order Selection Code letters or numbers from each Component Section and assemble them according to the **GasTrak™ Matrix No. Format** on the next page (refer to examples). With the selections offered under Sections '5' and '6', if you do not wish to include an "option", simply do not add any letters or numbers. A complete GasTrak™ Matrix No. MUST be assembled for each gas requiring a GasTrak™ Station. **If the U-Channel option is selected, each GasTrak™ Station, or combination of Stations in a GasTrak™ System, is shipped pre-assembled and mounted to the U-Channel ready for installation.**

Order Selection Codes

Section 1:
Optional U-Channel Frame Selection

UNI-Strut Mounted Frame	Include (Y / N)	Order Code
Add U-Channel Frame	YES	**P**
Omit U-Channel Frame	NO	**(OMIT)**

Section 2:
Regulator & Purifier Component Selections

(Select) Regulator / Purifier	Material	Order Code
Non-Regulated w/o Purifier	Brass	**Q**
Non-Regulated w/Purifier	Brass	**W**
Regulated w/o Purifier	Brass	**D**
Regulated w/Purifier	Brass	**K**
Non-Regulated w/o Purifier	Stainless Steel	**N**
Non-Regulated w/Purifier	Stainless Steel	**T**
Regulated w/o Purifier	Stainless Steel	**A**
Regulated w/Purifier	Stainless Steel	**G**

Section 3:
Pressure Range Selection

Pressure Range	Order Code
0-30 psig	**1**
0-100 psig	**2**
0-200 psig*	**3**

** 0-150 psig max. with purifier*

Section 4:
Gas Type Selection

Type Gas	Order Code
Acetylene	**A**
Air	**B**
Zero Air	**C**
Argon	**D**
Carbon Dioxide	**E**
Helium	**G**
Hydrogen	**J**
Methane	**K**
Nitrogen	**M**
Nitrous Oxide	**N**
Oxygen	**P**
P5 – 5% CH_4 / Ar	**R**
P10 – 10% CH_4 / Ar	**S**
Vacuum	**Y**

Section 5:
Optional Fitting Selection

Optional Feature	Order Code
3/8" Compression Fitting*	**1**
1/2" Compression Fitting*	**2**

** Material will match component material from Section 2*

Section 6:
Optional Purifier Selection

Purifier Type	Order Code
Moisture (H_2O) Purifier	**M**
Oxygen (O_2) Purifier	**O**
Hydrocarbon (HC) Purifier	**H**
Triple (H_2O + O_2 + HC) Purifier	**T**
Combi (H_2O + HC) Purifier	**C**