



Portable Gaseous Fuels Sampling System

SS-GF-ST-310 with Dry Gas Meters



The 310 Series Gaseous Fuels Sampling System was specifically designed for natural gas, biogas, and other gaseous fuels. It can be used with a variety of sampling methods, including sorbent tubes/traps, sampling bags, cylinders, canisters, and EPA Method 29 and MIC sampling trains.

Simply connect one or two sample sorbent tubes or other sample media, record the barometric pressure and temperature, open the sample valve, set the flow rate, and wait for the desired sample time to be achieved.

System Includes

- Two inert valves for Gas In and Gas Out
- Pressure Gauge
- Two independent Sample Trains
 - Individual Valves
 - Individual Rotameters with Needle Valves
 - Individual calibrated Dry Gas Meters (DGM)
- Optional components:
 - Integrated Pump Kit (low pressure or vacuum)
 - Two Sample Pumps (one for each train)
 - Power Supply with auto-activated valves)
 - Single stage regulator with inert wetted surfaces
 - NIST Traceable barometer and thermometer
 - 10' Teflon sample line, 30' exhaust line
 - Wall Mount Kit

Key Features

- Sample one or two sample trains simultaneously
- Dry Gas Meters (DGM) for highly accurate volume measurements
- Inert wetted surfaces
- For use with
 - Sorbent Tubes (Siloxanes, Hg, HCl, HF, NH₃)
 - Tedlar Bags
 - High-Pressure Cylinders
 - SUMMA Canisters
 - EPA Method 29 Sampling Train
 - MIC, PCB, and Pesticides Sampling Trains
- Suitable for all Ohio Lumex Sorbent Traps
 - Adjustable rails to accommodate various Sorbent Trap lengths
 - 10mm to 1/4" Sorbent Trap adaptors included
- Suitable for hazardous areas, including C1D1 and C1D2
- Suitable for the following Methods:
 - ASTM D1945, D1946, D3588, D5504, D8230
 - EPA OTM-40, Method 25, Method 29, TO-15
 - NIOSH 6016
 - Others





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Applications

- Landfills
- Wastewater Treatment Plants
- Food Waste Digestors (Co-Digestion)
- Dairy, Hog, and Chicken Farms
- Biogas Upgrading Process Control
- Compliance with RNG Interconnection Tariffs
- Others



Rentals Also Available

Which System is Right For You?

Model	Rotameter		Dry Gas Meter	Mass Flow Controller			
	SS-GF-ST-100	SS-GF-ST-110	SS-GF-ST-310	SS-GF-GT-100SC	SS-GF-GT-110SC	SS-GF-GTPR-100SC	SS-GF-GTPR-110SC
Configuration	Panel Mounted	Portable Case	Portable Case	Panel Mounted	Portable Case	Panel Mounted w/ Regulator	Portable Case w/ Regulator
For Use With							
Sorbent Traps	Hg	✓	✓	✓	✓	✓	✓
	HCl	✓	✓	✓			
	HF	✓	✓	✓			
	NH ₃	✓	✓	✓			
	Siloxanes	✓	✓	✓			
Tedlar Bags			✓				
Cylinders & Canisters			✓				
EPA Method 29 Sample Train			✓				
MIC Sample Train			✓				
1/4" Diameter Sorbent Traps (6mm some models)	✓	✓	✓	✓	✓	✓	✓
10 mm Diameter Sorbent Traps	✓	✓	✓				
Mounting							
Mounted on Fixed Panel	✓		Wall-Mount Kit Available	✓		✓	
Mounted in Portable Case		✓	✓		✓		✓
Ability to Connect Multiple Sampling Systems in Series			✓				
Flow/Volume Measurement							
Rotameter (flow)	✓	✓	✓				
Dry Gas Meter (volume)			✓				
Mass Flow Controller (flow & volume)				✓	✓	✓	✓
Minimum Sample Flow Rate	0.2 LPM	0.2 LPM	0.3 LPM	0.1 LPM	0.1 LPM	0.1 LPM	0.1 LPM
Maximum Sample Flow Rate	1.0 LPM	1.0 LPM	41.6 LPM	2 LPM	2 LPM	2 LPM	2 LPM
Uncertainty	0.025 LPM	0.025 LPM	flow < 4.2 LPM: +/-3% flow > 4.2 LPM: +/-1.5%	flow: +/-0.5% of reading flow: +/-0.1% of full scale volume totalizer: 0.5%	flow: +/-0.5% of reading flow: +/-0.1% of full scale volume totalizer: 0.5%	flow: +/-0.5% of reading flow: +/-0.1% of full scale volume totalizer: 0.5%	flow: +/-0.5% of reading flow: +/-0.1% of full scale volume totalizer: 0.5%
Required Volume Corrections	temp., pressure, coefficient	temp., pressure, coefficient	temp., pressure, coefficient	gas composition	gas composition	gas composition	gas composition
Miscellaneous							
Hazardous Area Suitability	all	all	all	C1D2	C1D2	C1D2	C1D2
Required Power	none	none	none	110-265 VAC, 80 W	110-265 VAC, 80 W	110-265 VAC, 80 W	110-265 VAC, 80 W
Heated Trap Pocket				✓	✓	✓	✓
Inert wetted surfaces	✓	✓	✓	✓	✓	✓	✓
Integrated Heated Pressure Regulator						✓	✓
Loose Pressure Regulator	optional	optional	optional	optional	optional		
Maximum Sample Pressure	15 PSIG	15 PSIG	15 PSIG	5 PSIG	5 PSIG	6,000 PSIG	6,000 PSIG
Integrated Pump Kit			optional				



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