

Essentials™ Gas Sampler Composite Gas Sampler



The Essentials™ Gas Sampling System is a low-cost composite sampling solution for clean, dry single-phase natural gas. The self-purging probe-mounted system collects fresh samples proportional to flow or time. Durable and low maintenance, it is well-suited for remote locations.

FEATURES

- Probe mounted with isolation valve
- Welker Fresh Sample System™
- Positive displacement piston sample pump
- Inline relief at sample outlet
- Purge manifold with pressure gauge
- Stainless steel Welker regulator with 40-micron filtration and relief
- Sample pump actuated by regulated process gas
- Manual solenoid test button
- Rain-tight, watertight, corrosion-resistant enclosure with padlock hasp
- Optional onboard Welker 6Tc Timer/Controller

BENEFITS

- Collect representative samples from the center one-third of the pipeline
- Perform standard maintenance without removing the system from the pipeline
- No lag time
- Self-purging design ensures a fresh sample every cycle
- Collect repeatable fixed volume samples at line pressure
- Inline relief prevents collected samples from flowing back to the pipeline if pipeline pressure drops
- Purge sample cylinder using industry standard practices
- On-site monitoring of single cavity sample cylinder fill volume
- Remove unwanted particles from process gas for sample pump actuation
- No auxiliary pneumatic supply required
- Actuate the sample pump for on-site system assessment and troubleshooting
- Confidently sample in aggressive environments and remote locations
- Sample proportional to flow or time without an external power supply (optional)

SPECIFICATIONS

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Essentials™ Gas Sampler

Materials of Construction	316/316L Stainless Steel (Wetted Parts), Anodized Aluminum (Non-wetted Parts), Polycarbonate (Enclosure), PTFE, Teflon®, Viton®
Operating Pressure	1440 psig @ -20 °F to 120 °F
Pipeline Connection	¾" MNPT
Sample Outlet Connection	¼" MNPT
Regulator Output Range	50-100 psig
Insertion Length	8"
Insertion Diameter	⅜"
Electrical Connection	DC 24 V
Sample Volume	0.25 cc
Operation	Piston-Operated Pump
Enclosure Dimensions	10" x 8" x 4" (Height x Width x Depth)
Features	Polycarbonate Enclosure With Clear Cover Purge Manifold Solenoid Welker IR-7 Instrument Regulator With Relief and Pressure Gauge Welker MPS-2 Micropurge Sample Pump
Option	Welker 6Tc Timer/Controller
Industry Standards	GPA 2166, API 14.1, ASTM D5287, ISO 10715

Weight and/or dimensions are approximate.
Specifications subject to change without notice.

