

Product Data Sheet

Metco 5GF Gas Flowmeter for Combustion Spray

The Metco™ 5GF is a highly accurate and reliable instrument for regulating and measuring the flow of both oxygen and fuel gas in a manual powder or wire combustion spray system.

The Metco 5GF has precision needle valves, actuated by adjustment knobs on the front panel, that control the flow of gas. Flow unit readout is provided in both Metric (NLPM) and English (SCFH) units.

Separate flowmeters are provided for the regulation of oxygen and fuel gas, which are isolated from each other. As an additional safety feature, each meter incorporates check valves in the meter outlet to the combustion spray gun, which protects against high back pressure that could result from gun backfire and prevents any possibility of mixing of the process gases.

1 General Description

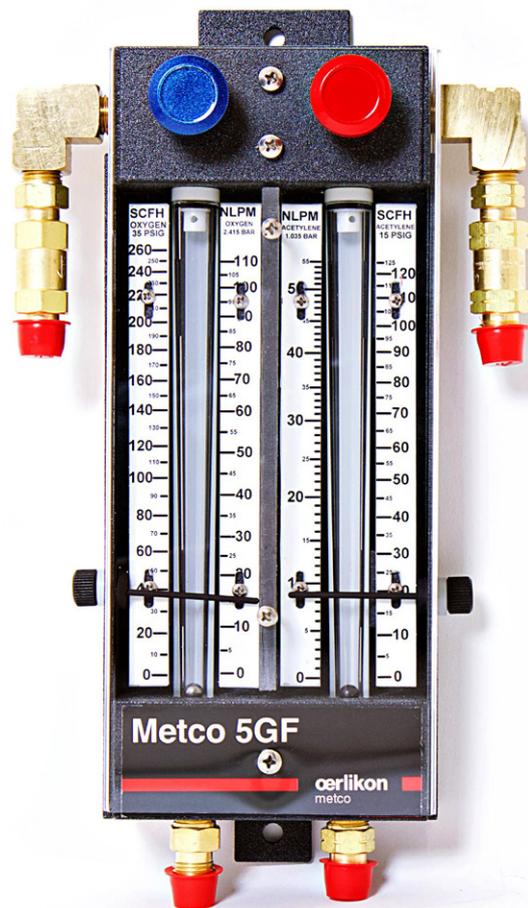
Observation of the flowmeters during operation can warn the operator of possible obstructions or leaks in the gas lines. The use of the sliding pointers, which can be clamped in place, facilitate monitoring of the process gases for such an event. These indicators allow an easy and quick check of process gas flow at a distance and without the need to read the exact scale marking.

Acetylene, hydrogen, propane, MAPP and natural gas can be safely used.

Customers can use the Metco 5GF with standard cylinders of compressed gas or with gas supplied through plant pipelines, or in combination. Whatever the source of the process gas, it is important that appropriate pressure regulators be used upstream from the Oerlikon Metco 5GF unit.

2 Features and Benefits

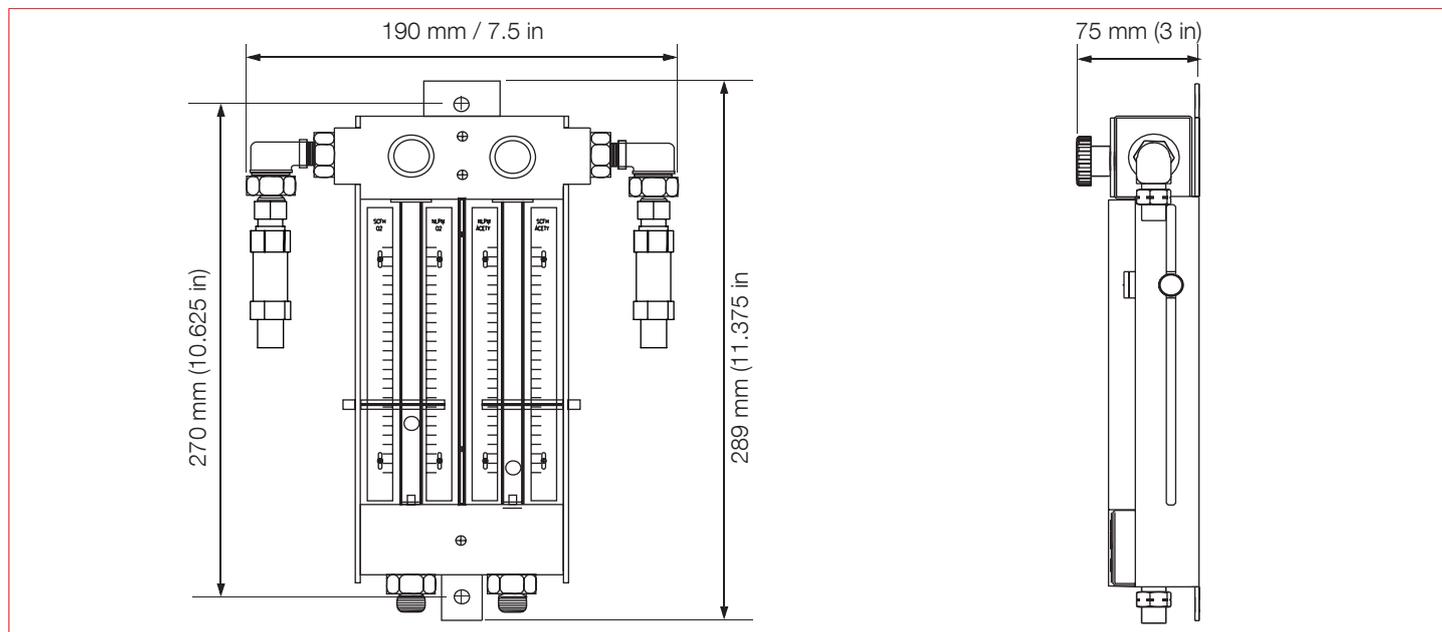
- Economical and simple: Inexpensive to own and operate; minimal training required
- Precise: Provides precision metering of process gas flow for consistent results
- Versatile: Can be used with a choice of fuel gases to accommodate different applications and production needs
- Safe: Check valves, and plastic shields for safe operation
- Safe connection system: Fuel and oxygen connections are threaded in the opposite direction from one another, to prevent improper hookup
- Convenient: Easily mounts on a wall
- Easy to read: Sliding indicators and flow units in both NLPM and SCFH
- Rugged design: Built for long service life with very little maintenance
- Detachable flow scales: Facilitates calibration of the 5GF



5GF Gas Flowmeter

3 Technical Data

3.1 Dimensions



3.2 Specifications

Process Gases

Acetylene, hydrogen, propane, MPS, MAPP, natural gas

Oxygen

Meter (Read-out scale)

Oxygen	0 to 110 NLPM @ 2.41 bar	0 to 260 SCFH @ 35 psi
Acetylene	0 to 55 NLPM @ 1.035 bar	0 to 125 SCFH @ 15 psi

Maximum operating pressure

Oxygen and fuel *	6.9 bar	100 psi
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Connections (inlet and outlet)

Oxygen	right-hand thread	CGA022	9/16-18
Fuel	left-hand thread	CGA023	9/16-18

Weight

	2.72 kg	6 lb
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* Acetylene should not be used above 1 bar (15 psi)

Information is subject to change without prior notice.

4 Life Cycle Status and Support Options

Our four-phase life cycle model keeps you informed about available services and support options throughout the life span of your equipment.



4.1 Metco 5GF Status

- Current Life-Cycle Status: Active
- Inception Date: September 2020

During the Active phase, you have our full support and range of services. Using our life-cycle services will keep your equipment in the best operating condition.

4.2 Keeping You Informed

We will notify you early and transparently about your options as your equipment enters into the next life-cycle phase, providing your equipment is registered with Oerlikon Metco.

4.2.1 Life-Cycle Notification

Provides early information about the upcoming life-cycle phase change and how your equipment can be best supported.

4.2.2 Life-Cycle Status Statement

Provides information about the current life-cycle status and all available options and services to maintain your equipment in best condition.

4.3 The Oerlikon Metco Difference

Benefit from our selection of comprehensive services designed to ensure:

- Consistent spray quality, with little to no parameter shift
- Compliance with your ISO quality requirements
- Maximized equipment uptime
- Extended overall equipment lifetime
- Fast availability of spare parts

4.4 Your Best Value for Peak Performance

Choose from our broad portfolio of services to keep your equipment in top condition now and in the future.

- Calibrations
- Repair service

Take advantage of an Oerlikon Metco Service Agreement tailored to your specific needs.

For more information on your service and support options, please contact your Oerlikon Metco Account Manager.