



**Computer Weld
Technology, Inc.**

**GFM™
Gas Flow Monitor**

GFM™

The Gas Flow Monitor (GFM™) precisely measures flow rates of welding shielding gases using the state of the art MEMS flow sensor with OLED graphic display.

The GFM™ has 6 selectable gas settings, ARGON, Argon/ CO₂ (90/10), Argon/ CO₂ (80/20), Argon/ CO₂ (75/25), Helium, and CO₂. The GFM™ can be custom ordered and configured for additional gas mixtures.

A flow rate (5 to 255 SCFH) is digitally displayed with a 1 SCFH resolution. The accuracy of the 3% of full scale reading on the GFM™ is considerably better than conventional ball type flow meters.

The GFM™ can be installed in-line, down stream of the gas regulator for permanent installations, and is available in a battery powered configuration with a rubber cone for testing gas flow at the welding torch nozzle throughout the shop.



The convenience and accuracy of the GFM™ enables this welding tool to pay for itself many times over.

FEATURES

- Capability to limit test, provide an accumulated gas usage and peak flow rates as well as displaying on-going gas flow rates
- The unit also provides an analog output voltage representing measured gas flow rates
- The GFM also has a Modbus® RS-485 serial port. The sensor can communicate with third party controllers via the Modbus® protocol
- The GFM uses an OLED graphic display panel to display the gas flow rates, to provide programming menus and user defined optional parameter display
- The GFM is software configurable for English or Metric units of measure with 6 user selectable gas types.
- When fully charged, the battery operated version operates for up to twenty-four hours

BENEFITS

- The in-line version is designed to be permanently installed in a welding fixture to continuously monitor the gas flow rate
- The portable version can be used to check the gas flow rates directly at the welding torch
- An internal fault relay can be used to warn or interrupt the welding process if an out-of-limits condition is detected
- Provides gas "Sure-Flow" switch capability for Robotic and Automatic Weld Fixtures
- Reduces gas usage by allowing proper setting of the gas flow rates at the nozzle
- Reduces costly weld repairs by assuring proper gas flow rates

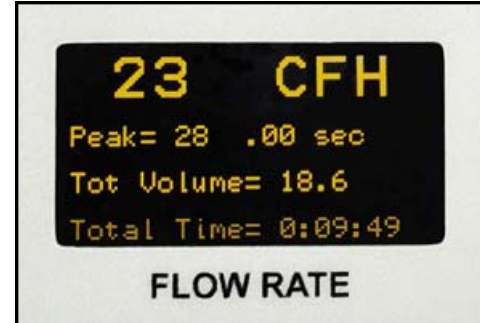
GFM™ SPECIFICATIONS

SENSOR SPECIFICATIONS

Measurement Range:	5 - 255 SCFH (2-120 LPM)
Display Resolution:	±1 SCFH (±1 LPM)
Accuracy:	±3% of full scale ± 1 digit
Operating Pressure:	50 PSIA maximum (344 KPA)
Fault Relay Output:	Opto-Isolated SSR (Solid State Relay)
Relay Rating:	48 vac @ 0.5 amps non-inductive 48 vdc @ 1.0 amps non-inductive
Analog Sensor Output:	0 - 2.55 vdc @ 10 ma
Analog Scaling:	0.01 vdc = 1 SCFH (.01 V = 1 LPM)
Power Requirement:	10 - 28 vdc @ 100 ma
Operating Temperature:	+20° to +140°F (-7° to +60°C)
Battery Charger:	115/23020 vac 60 hz @ 300 ma
Battery Life:	Approximately 24 hours with full charge

MECHANICAL SPECIFICATIONS

Dimensions:	2-13/16"W x 3-1/2"H x 2-13/16"L (71.4 mm W x 88.9 mm H x 71.4 mm L)
Weight:	19 oz. (539 gm)
Pipe Fittings:	3/8" NPT with 3/8" hose barb fittings
Torque Spec:	15 ± 5 in lb (1,7 ± 0,6 N m)



GRAPHIC DISPLAY PANEL

ORDERING INFORMATION

GFM™ Portable Version P/N: A0A0161



Includes hose cone assembly
and battery charger

GFM™ In-Line Version P/N: A0A0162



Includes installation hardware
and battery charger

Note: Specifications subject to change without notice.