



**Computer Weld
Technology, Inc.**

GTFM IV™

Gas Turbine Flow Monitor

GTFM IV™

The Gas Turbine Flow Monitor (GTFM™) precisely measures flow rates of welding shielding gases.

The GTFM™ can be used for Argon, Helium, CO2 or any mixed inert welding gas.

A flow rate (5 to 255 SCFH) is digitally displayed with a 1 SCFH resolution. The accuracy of the 2% of full scale reading on the GTFM™ is considerably better than conventional ball type flow meters.

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



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

FEATURES

- When fully charged, the battery operated version operates for up to two hours
- Limit testing capability - operator may set high and low limits for gas flow rates. If the gas flow rate exceeds the flow range set, the GTFM™ sets an internal relay which can be used to trigger an alarm
- Monitor and display accumulated gas usage - operator has the ability to measure and display gas flow usage for a defined period of time
- Monitor and display remaining gas in cylinder at any time
- Monitor and display peak gas flow surge during weld cycle
- Available in English or Metric units of measure

BENEFITS

- 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
- Provides documentation of gas flow rates for quality control procedures
- Reduces cost of having multiple ball-float type flow meters for each welding gas used in the shop
- Provides gas "Sure-Flow" switch capability for Robotic and Automatic Weld Fixtures

GTFM IV™ SPECIFICATIONS

SENSOR SPECIFICATIONS

Measurement Range:	5 - 255 SCFH (2-120 LPM)
Display Resolution:	±1 SCFH (±1 LPM)
Accuracy:	±2% of full scale ± 1 digit
Operating Pressure:	50 PSIA maximum (344 KPA)
Fault Relay Output:	N.O. Dry Contact Closure
Relay Rating:	120 vac @ 0.5 amps non-inductive 24 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:	120 vac 60 hz @ 300 ma 220 vac 50 hz @ 300 ma
Battery Life:	Approximately 2 hours with full charge

MECHANICAL SPECIFICATIONS

Dimensions:	3-1/4" W x 1-3/4" H x 5-3/8" L (85mm W x 45mm H x 138mm L)
Weight:	23 oz. (652 gm)
Pipe Fittings:	3/8" NPT with 3/8" hose barb fittings

ORDER INFORMATION *(SPECIFY ENGLISH OR METRIC UNITS OF MEASUREMENT)*

Portable GTFM IV™ - 115 vac	P/N A0A0032	Includes hose cone assembly and battery charger
Portable GTFM IV™ - 220 vac	P/N A0A0033	Includes hose cone assembly and battery charger
In-Line GTFM IV™ - 115 vac	P/N A0A0036	Includes installation hardware and battery charger
In-Line GTFM IV™ - 220 vac	P/N A0A0037	Includes installation hardware and battery charger



GTFM IV™ Portable Version



GTFM IV™ In-Line Version

Note: Specifications subject to change without notice.