

# Well Flow Management

## Well Testing | Measurement

### Gas Gravitometer

**The portable gas gravitometer is an easy-to-use, rapid response instrument used to measure the relative density (specific gravity) of gases as compared to air at standard temperature and pressure (STP).**

For all gases there is a definite relation between the compositions of the gas mixture and its relative density.

The specific gravity of any gas produced during testing operations also has a fundamental effect on calculated flow rates, where a specific gravity ( $F_g$ ) is applied to change from a real gas relative density of 1.0 to the real gas relative density of the flowing gas (as per 3-B-13, AGA 3).

The instrument is calibrated over two ranges to indicate relative density and offers multiple scales with field-proven accuracy within 0.05% of actual value at any reading. Dual ranges are available: 0.52-1.03 and 0.097-1.90 relative density (specific gravity).

The gravitometer has a proven track record and no elaborate set up is required for the portable version. The unit can be operated with the minimum of field training and can be powered with either a standard AC power supply or a 12-volt vehicle battery through a DC-AC inverter.

The gravitometer is constructed of durable, corrosion resistant mechanical components with no fragile glass or electronic parts, minimizing installation and reducing the risk of transit or operational damage.



#### Applications

- Well testing
- Natural gas measurement
- Gas utilities

#### Features and benefits

- Accurate (+/-0.5% of reading)
- Instantaneous response
- Rugged and reliable
- Simple and easy to operate
- Readable, indicating scale is 6" wide
- Meets ASTM D1070 (Standard Test Methods for Relative Density of Gaseous Fuels Products and Services)



# Well Flow Management

## Well Testing | Measurement

### Gas Gravitometer

Technical specifications	
Accuracy	±0.5% of actual value
Readings	Indicating only
Drive motor	115 VAC, 60 Hz or 230 VAC, 50 Hz
Sample flow rate	10-15 scf/hour
Sample pressure	20 psig maximum
Specific gravity range	Dual scale: 0.52 to 1.03 and 0.97 to 1.90
Ambient air reference dryer	Silica gel
Ship weight	50 lb (23 kg)
Case	Portable with carrying handle

Note: For more information contact your local Expro representative or email [welltesting@expro.com](mailto:welltesting@expro.com)